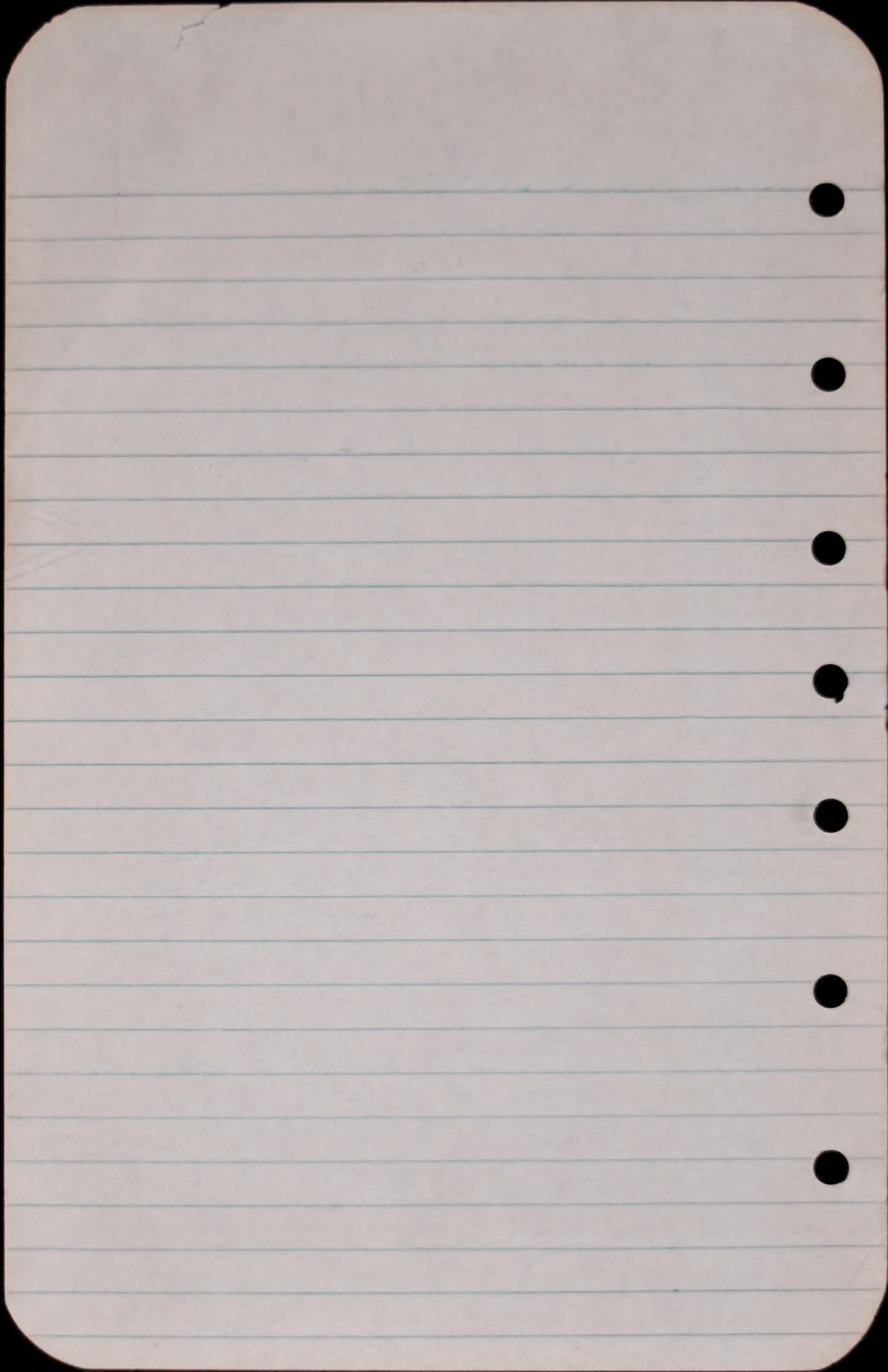


3-4-82 Is this 729 D III (2)? CMS

Mexico

1936

H.R.R.



June 30th between Bristol
and Kingsport, ^{Tenn.} - harvested
wheat field near stream

1 *Micogryllus*

1 *Oecanthus*

July 3 between Little Rock
& Benton, Ark. In wood
by stream.

Micogryllus

Hemolius

(*Pterophila* heard)

Many nymphs of short horns

Melanoplus

Chortoptera

2 types of *Spharagmon*

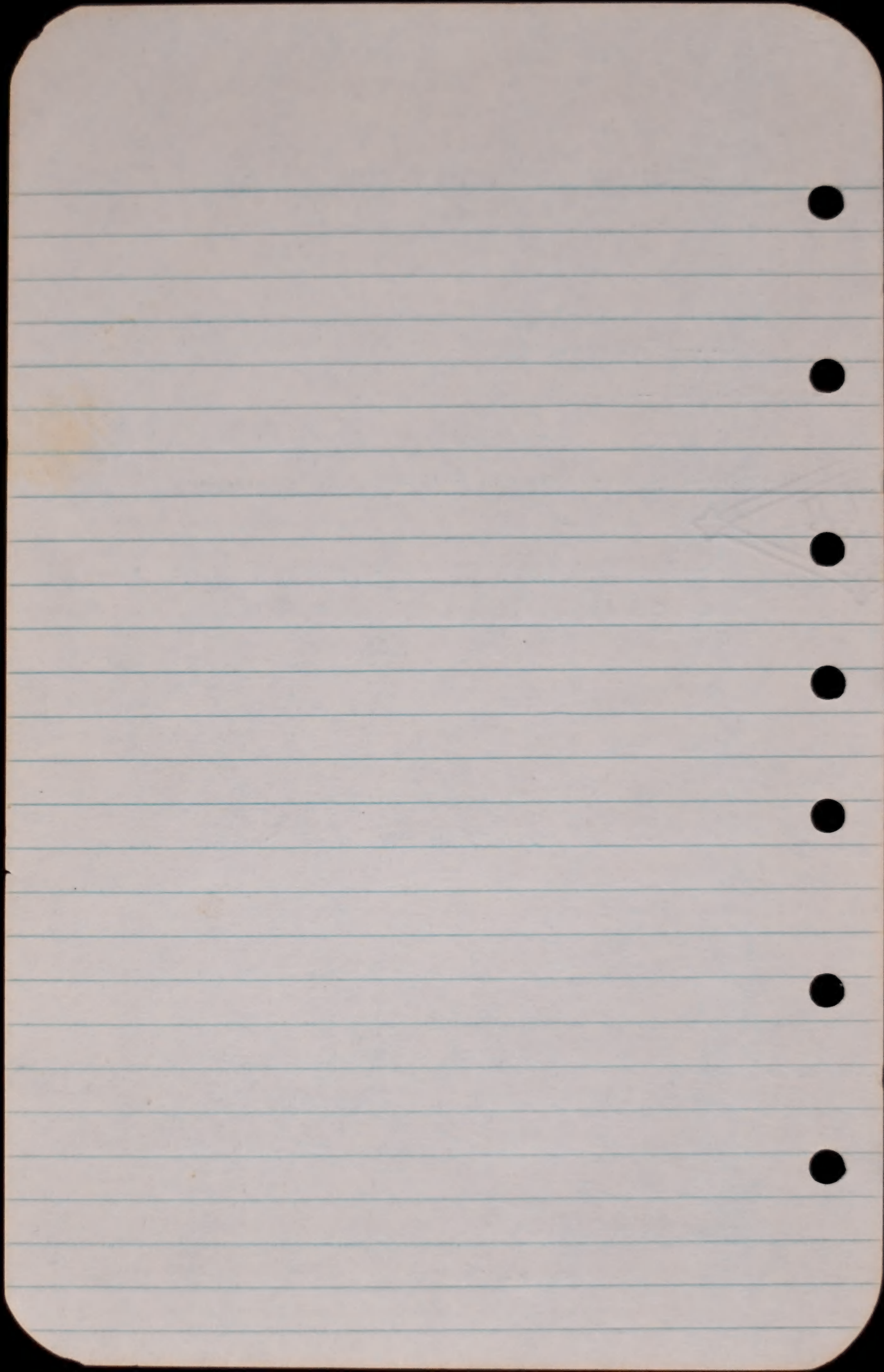
1 *Eurycia*

July 3-4 Near Fulton, Ark

No. 1 *Pterophila* - many singing
climbed Oak to secure it.

Several other long horns singing
in trees.

Large spotted *Centrophilus*?
on roadway



July 5 Morning

Mc Horter Ranch 10 mi^S west of Waxahatchie,
Texas toward Maypearl

Near the brow of a hill - natural
habitat - grass, weeds, some
pear cactus, acacias & hawthorns

Dactyloctenium found here - they
say it depends on a small weed
which they call Dactyloctenium weed.

Almost all hoppers obtained
from beating in grass & weeds
including the *Decticiids*

July 5 Afternoon

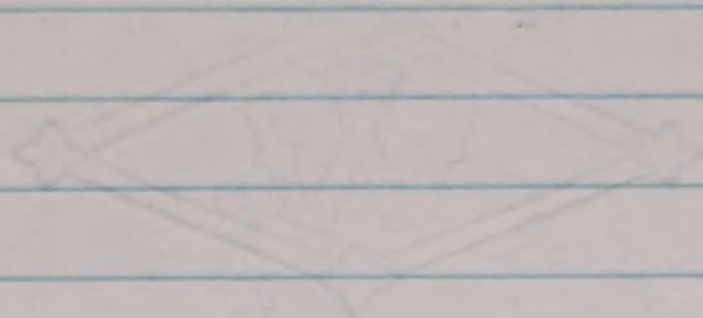
Sardis 5 mi west of Waxahatchie
grass & weedy fields - *Hesperotettix*
abundant - ~~*Decticiids*~~ & *Dichopetala*
Ablucorypha common.

Hadrotettix everywhere

Trimertropis on white out crop

July 8th

37 miles North of Laredo, Texas
Country much like first stop
below border but higher vegetation
and soil fine reddish sand.



July 7th Bandera, Bandera Co, Texas
stopped by creek - large cedars
grassy, weedy cover

Did not attempt to make
a comprehensive coll.

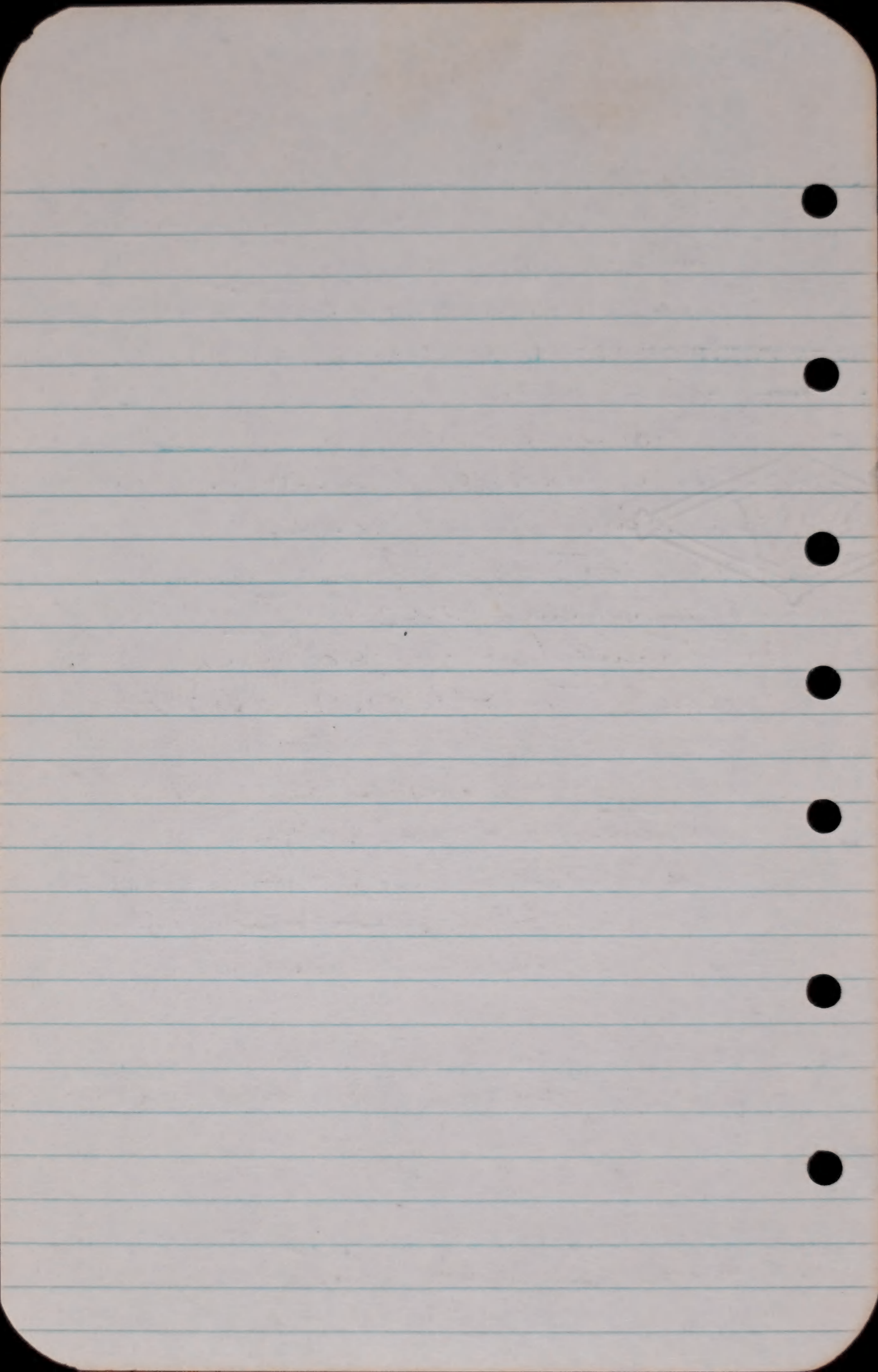
got several small crickets
of interest.

The large Phosmid came
walking into light at
night.

The small crickets were
obtained by beating, as
were the others.

July 8th

39 miles North of Laredo, Texas
country much like first stop
in Mexico below border, but higher
vegetation and soil fine red
sand



— Mexico —

(July 8th)

July 9th

About 12 miles South
of border Nuevo Leon, Mex.
Arrived here about six after being
held up in the customs for four hours
at Nuevo Laredo

Altitude less than 500 ft
Country - scattered acacias and
smaller thorny bushes
some cactus four feet high of the
branch like type.

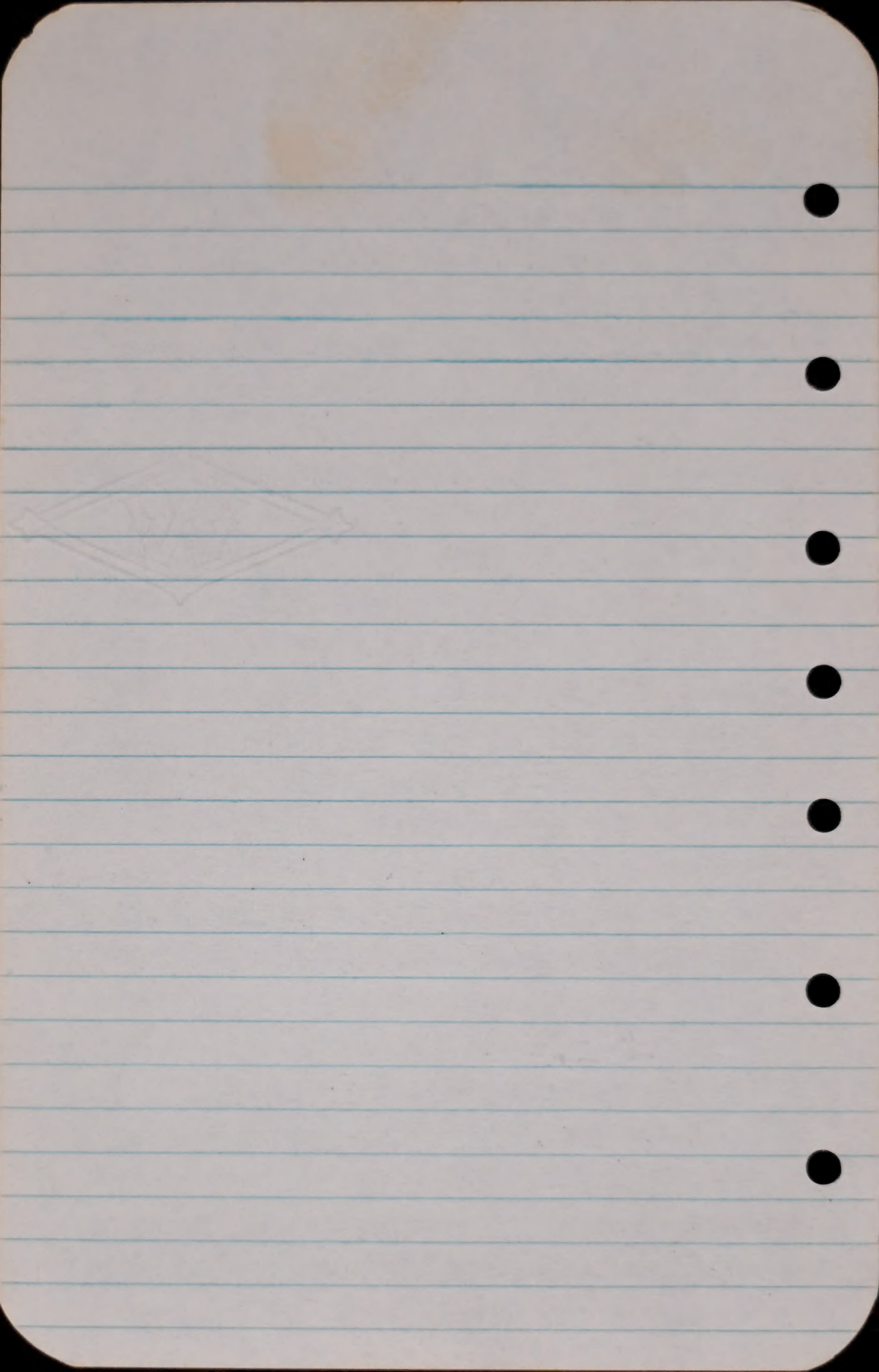
Obtained two species of long
horns in the evening by flashlight
in acacias also two Phasmids

The *Perixerus* was rather difficult
to catch as it was only found
in the thorny bushes or cactus

The wingless green *Melanophi*
was also found in bushes or
on the acacias.

The ^{*Dichopetapus*} ~~*Dactylops*~~ were chiefly
found in the cactus. The gaily
one was taken on the lower
trunk of the acacia at
night.

The winged acridids were all
taken on the ground except for



July 9 (cont.)

the Schistocreas which usually flew from bush to bush. The Tryxalines also took to the bush at times.

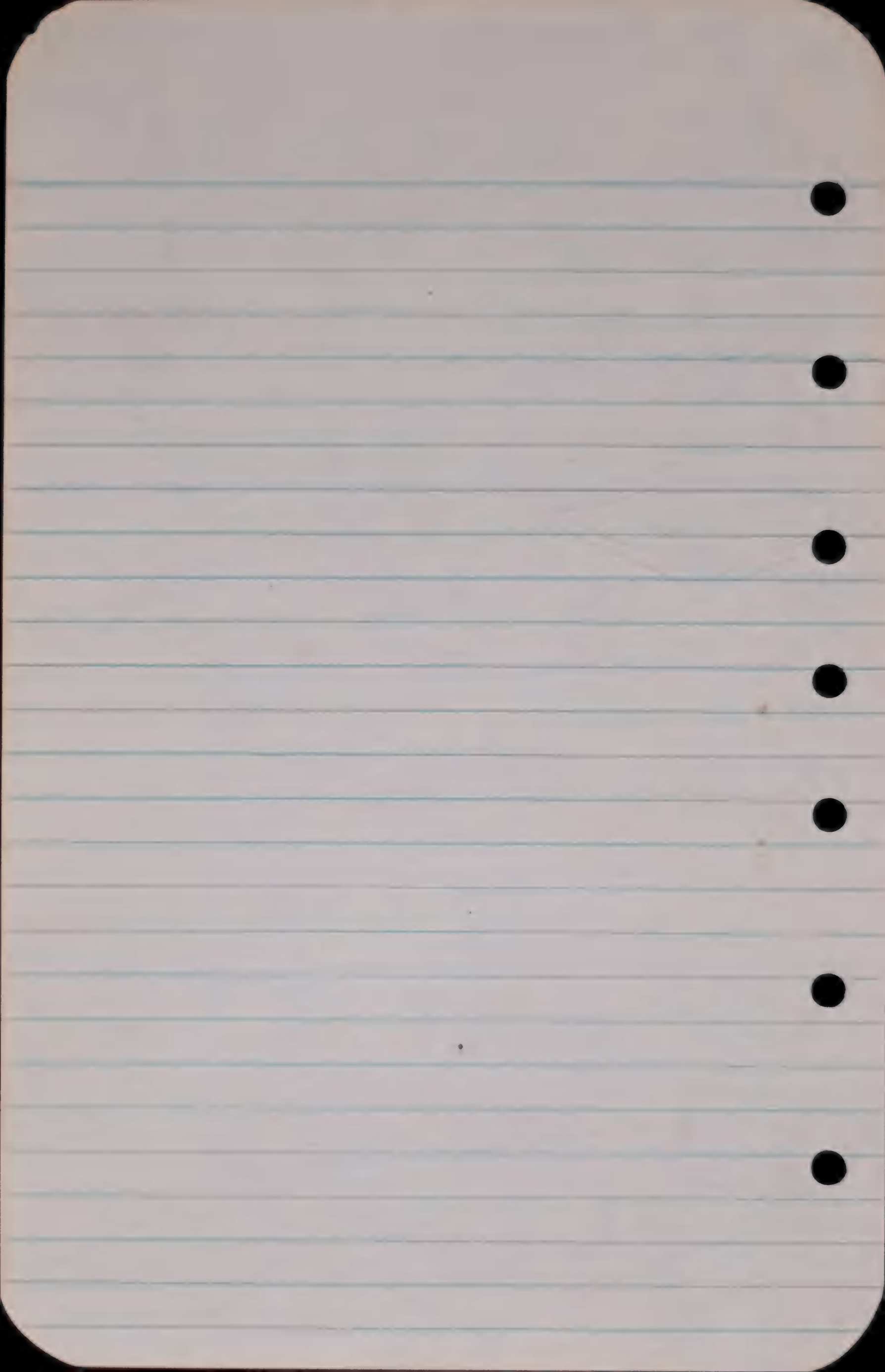
The little grey mantid was found on the ground and was quite agile. It running about. The ground was sparsely covered by a low grass completely dried out. The earth was a grey brown fine sandy type.

The small Cicada was taken in an acacia and was the only singer during the day - a more or less continuous dee, chee, dee, chee etc.

The long horns on the acacias are rather difficult to find during the day, but are easily spotted at night.

Used hoe under acacias and found a few Blattels and a very small cricket very hard to catch.

Later in the afternoon went down into dry wash - found Trimerotropis on bare ground - beat in weeds and got Aelycorypha, Conocephalus

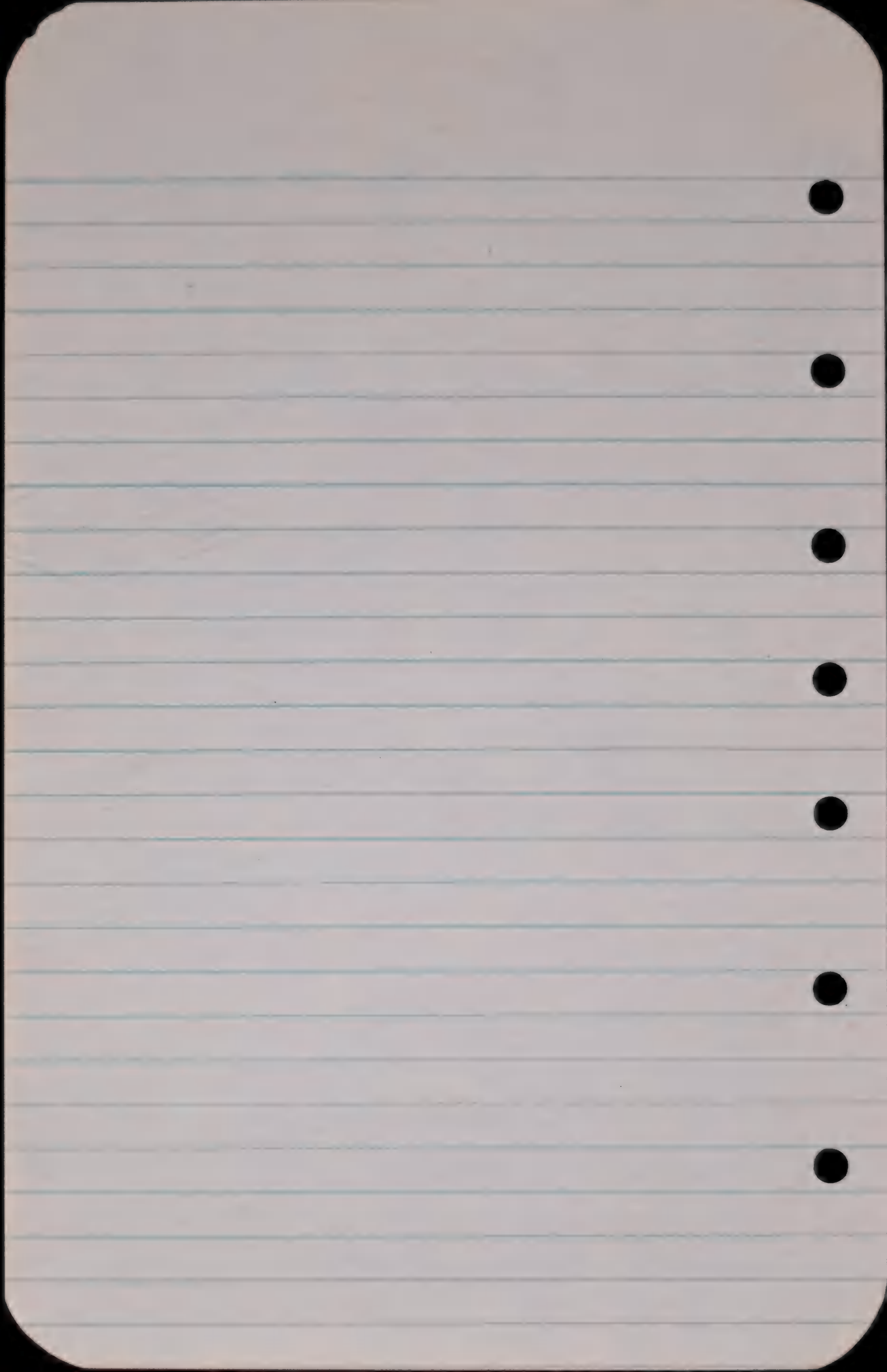


July 9th cont.

winged Melanophus Dichromorpha,
black winged small Erythroneura or
Memoria? —

July 10th went off in another direction
where Ed had found some Boopis
and secured several and also
what I take to be a short winged
one of large size

La Gloria about 4 miles below
border (In Tomalipas?) dryer
area much cactus few acacias
mostly thorny scrub also stopped
on the Rio Salado only a short
distance beyond - mostly nymphs
in the grass got one of Dichromorpha
like hopper

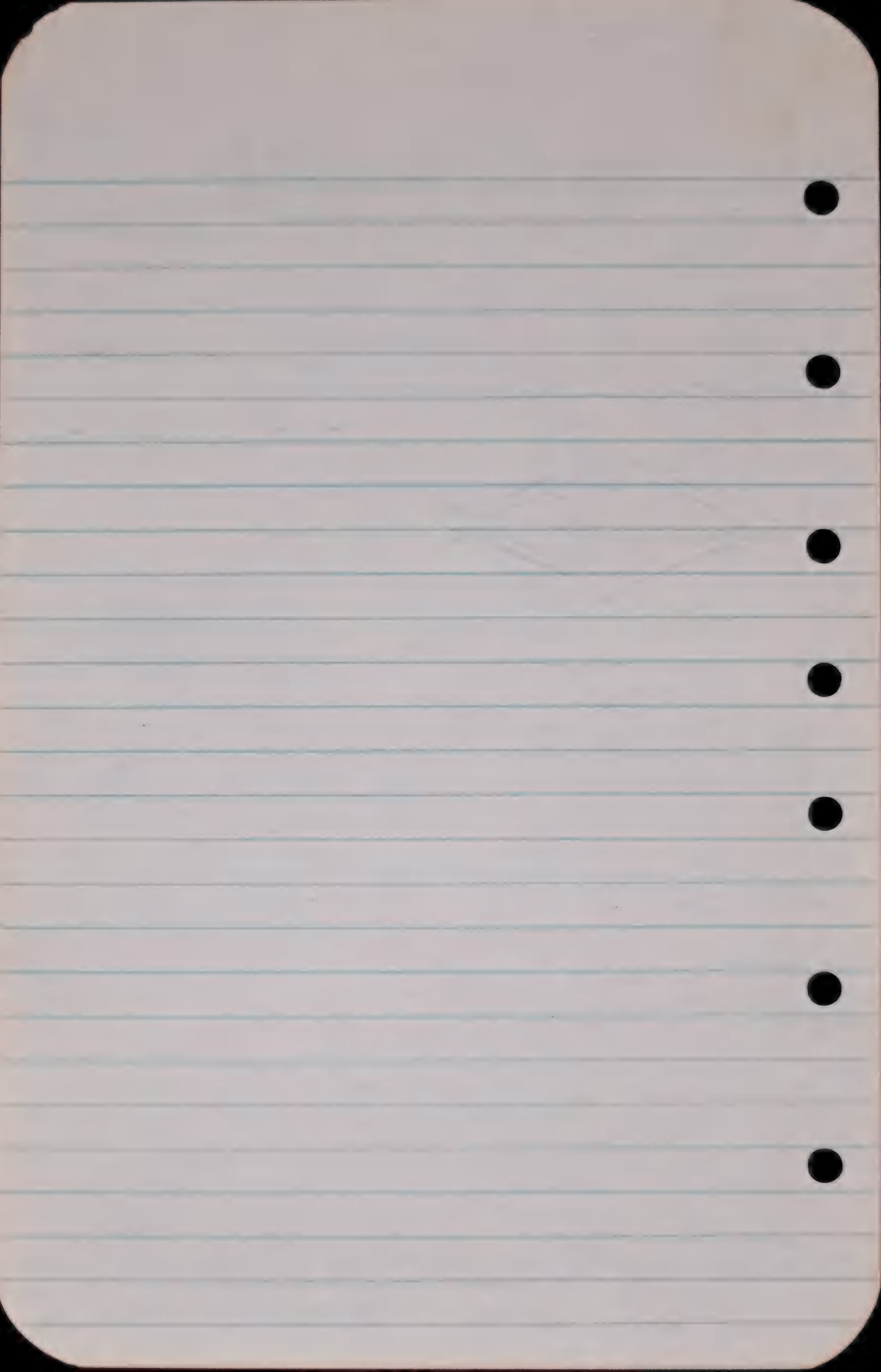


Mamunliques Pass - July 10-12
just off road to ranch which takes off from
main road by second customs station
which is just South of Mamunliques Pass
probably at an elevation of about
1800 ft. The country is surrounded by
hills - Vegetation semi arid - High
tree yuccas and much thorny scrub
some pear cactus and a few other varieties
but not abundant - grass fairly sparse
and some weeds - Country evidently
gets considerable more rain than
to the North & much cooler.

Most of the Hoppers appear to be
adult and very good collecting.

Schistocerca are abundant and
appear to be the same as in Texas.
Secured one grey female? only one
seen. There are a few immatures
about.

One is impressed by the great numbers
of short winged worms about.
The Dactyloctenium have been only
found in one place near by where
the vegetation is rather short and
a good amount of small agave
plants which the retreat into for
protection. The Dactiids seem
most common around the agaves.



Mamuniquel Pass (Cont'n)

and hence difficult to catch.

Caught one feeding at trap and one up in a bush.

Set out traps (mostly tin cans) but not very successful. I in immature grasshoppers & 5 immat. Blattids - Caught several tiny brown crickets long sweeping in bushes but think they are immature.

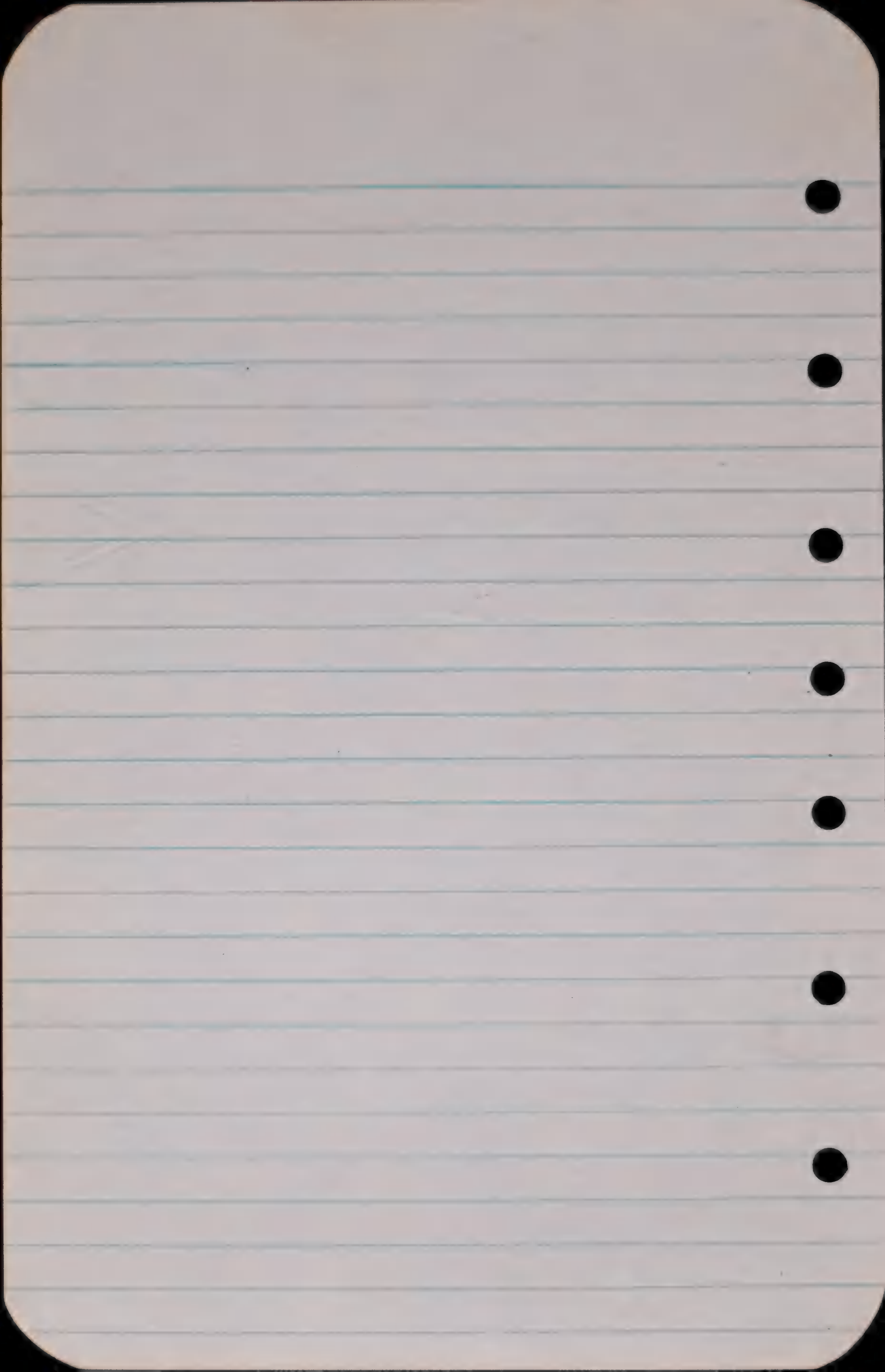
Phasmids fairly common but most of the mantids appear to be immature except for the little grey fellow that occurs on the ground.

Ed went off to grassy area that had apparently been used for a truck patch and got two kinds of Melanophus (dringed) and Hesperotettix, & Chortophaga.

Night collecting rather interesting - got 3 ♂ Neoconocephalus - not common as they were the only ones heard - a loud continuous lounge - Schistocerca easy to pick off bushes and also the short winged Melanopli.

Shook gaged seed pod clusters and obtained only one green Blattid.

Found a number of the Bishopstillas and 2 green Blattids in dead leaves.



Mamuliqua pass cont.

of tree yucca by shaking with hole
with net beneath

went to Monterrey July 13 - much
rain night before - storm clouds
began blowing in previous afternoon
Got supplies in Monterrey and
went towards Saltillo about 30 miles

Hidalgos? ?

"Mine" Camp 4000 ft July 13 -
weather continues to blow from the
East, much rain and rather cold.
Went out on slope for about 3 hours
this morning - collecting poor -
mostly nymphs & not much to
be seen - got a number of *Melanophila*
from among small aqueduct - appear to
be same as previous collecting site
but not as brilliantly colored.
Hazel spotted 1 ♀ "*Pemphigus*" like one.
Secured one fat short winged grey
♀? - Nymphs of *Tamias* on
Schistocerca & *Laguna* - *Thymotropis*
pallidipennis & a few other flies.
A new phorid and small
abbreviated winged long horn.

Found the *Centrophobus* on the

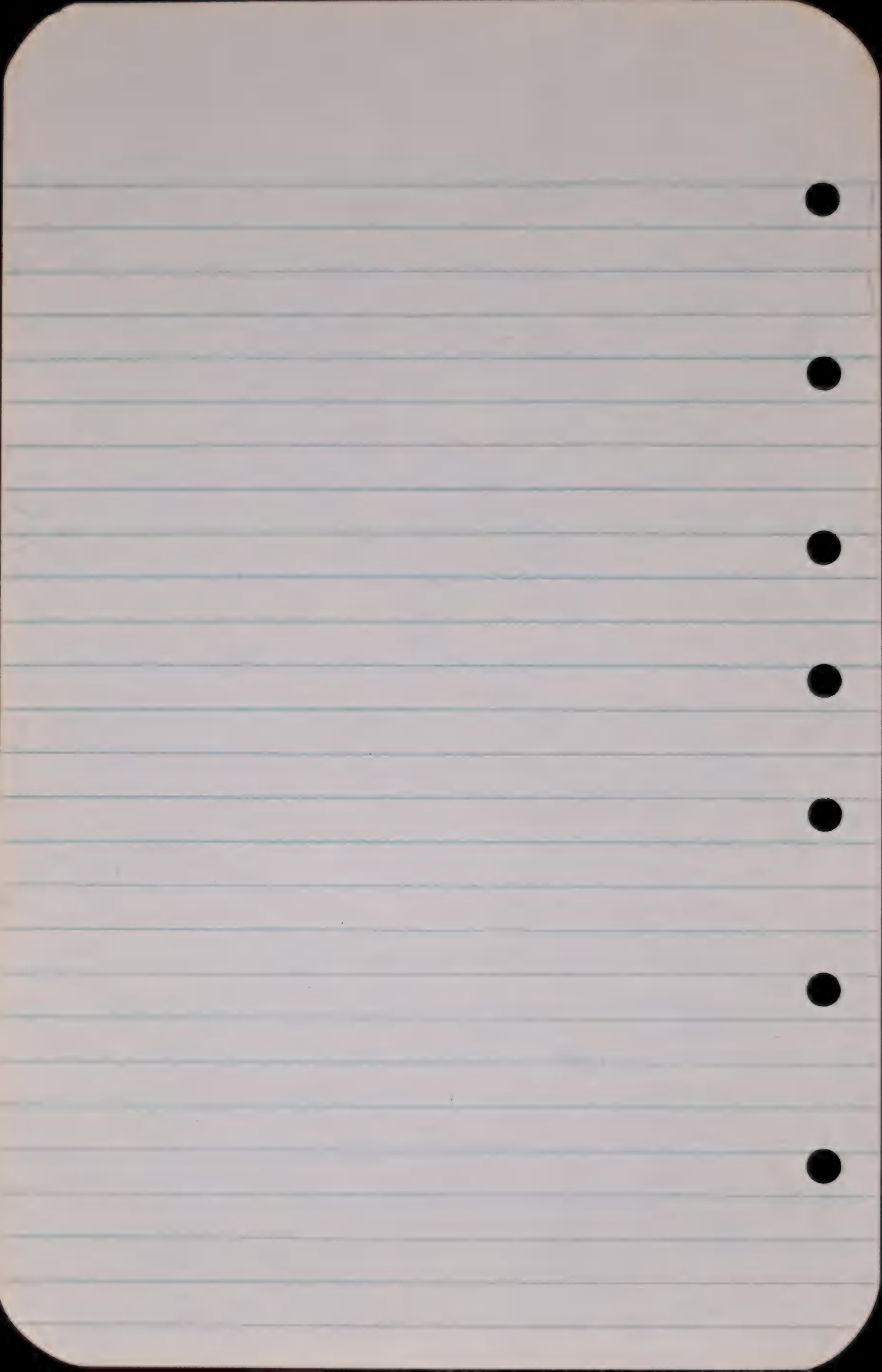
970

871

tent this morning.

Secured one little *Virena* like short winged specimen - caught one immature *Hemolinus* around spring others adult were singing. Saw one but unable to catch it.

July 15 broke camp and went to Saltillo - stopped for an hour & a half then took road to Torreon. Rough gravel road. Stopped about six miles west of Saltillo & collected for some time - altitude slightly higher than Saltillo 5000 ft & very arid barren country low scrub a few acacias and tree yuccas - much of the small agaves little or no grass - found a few nymph *Dactyloctenium* - saw one adult *Syrphula* - Found *Boottellus* on crease wood? & *Phasmod* - several short winged long horns and a few other odder ends. Made camp about 20 miles beyond Saltillo - unhooked



trailer and went on in the afternoon about twelve miles to a small river which was in flood & could go no further as bridge was under construction & ford too deep.

went collecting up along river for about two hours with Ed.

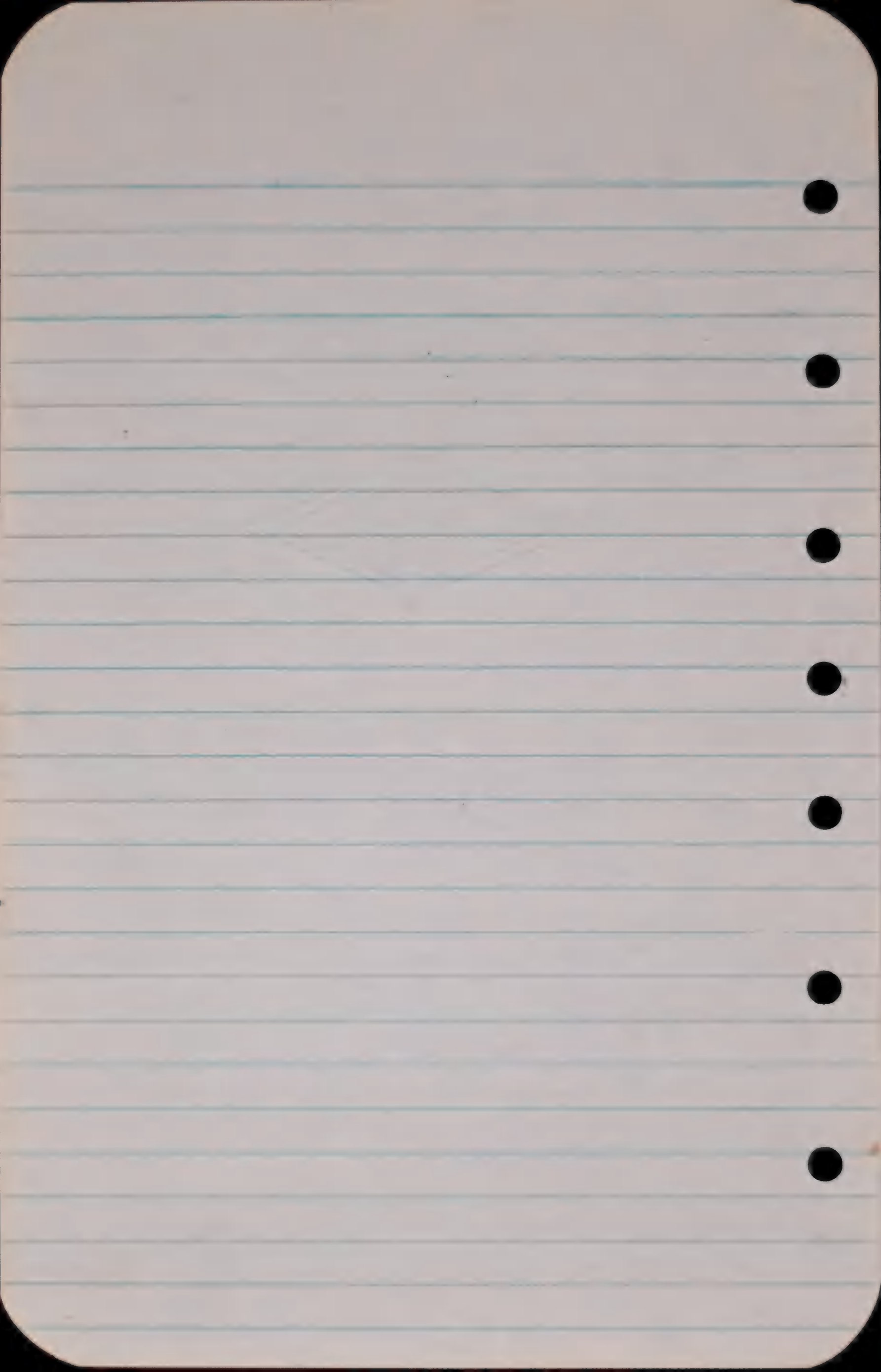
Hoppers very scarce

Found a small Hesperotettix like hopper in low knobby like cactus very alert and difficult to catch worked an hour & a half to get less than a dozen specimens, also got 2 ♀ Perixerus like ones.

Got a few other odds and ends Phasmoda & long horns

Country very arid and vegetative low - This country is no doubt typical of the Mexican plateau of this region and probably differs little all the way to Torreon.

July 16 - collected around camp before leaving in small wack

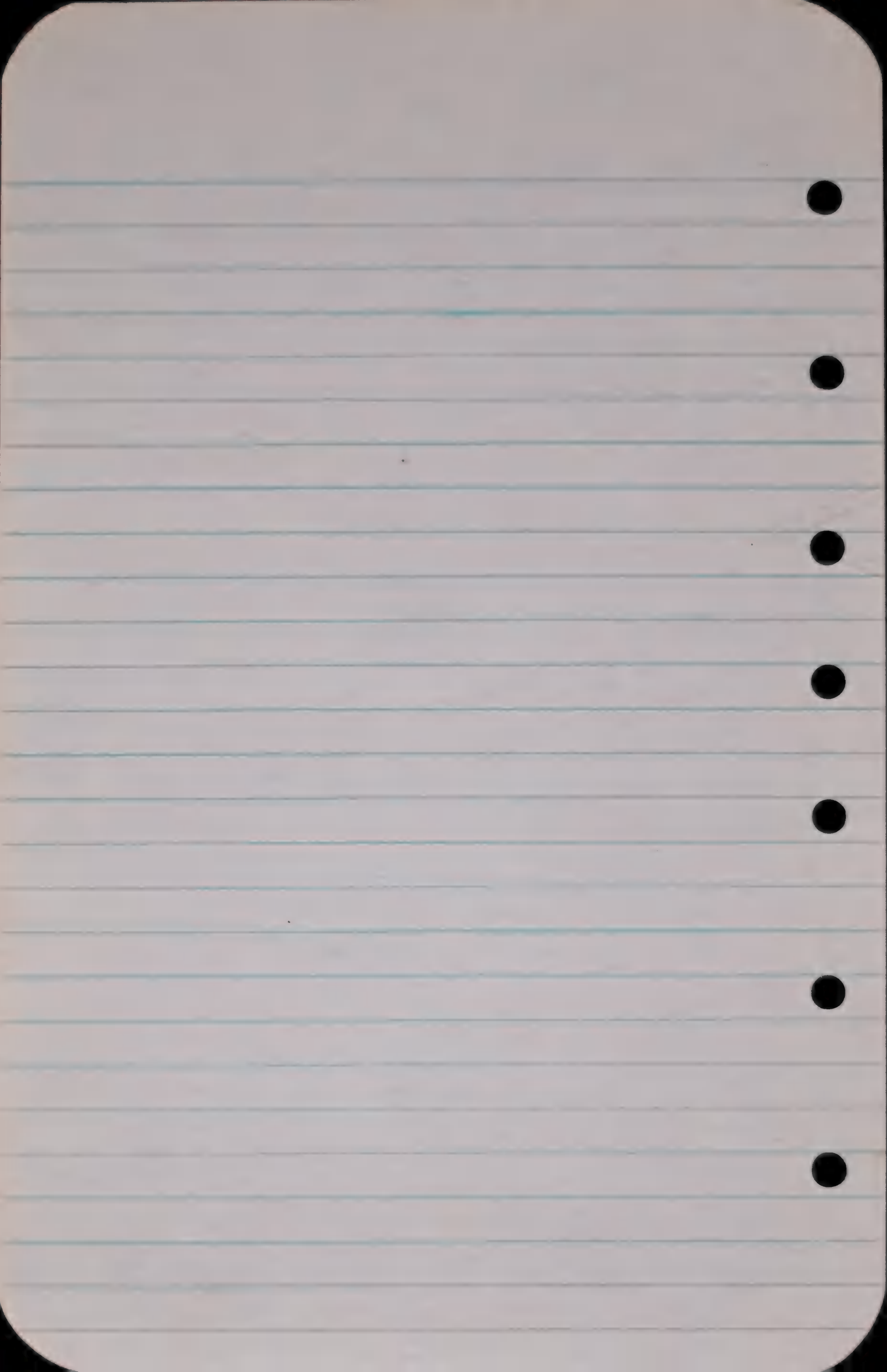


where there was some grass & weeds - Got a new kind of *Perixerus* like hopper - not sure if it is adult, rather soft & much fuzzy - also got a long winged blue tagged *Melanoplus* out of Grass - Also two *Parasidimona* like ♂♂. There were a great number of about 2nd instar hoppers about.

This locality was about 20 miles west of Saltillo at an elevation of about 7000 ft + quite arid with scrub about three feet high - There were also *Boottia* on the crease wood & it was also common on this at previous locality by the river.

Returned to Saltillo and got provisions & then on to Monterrey.

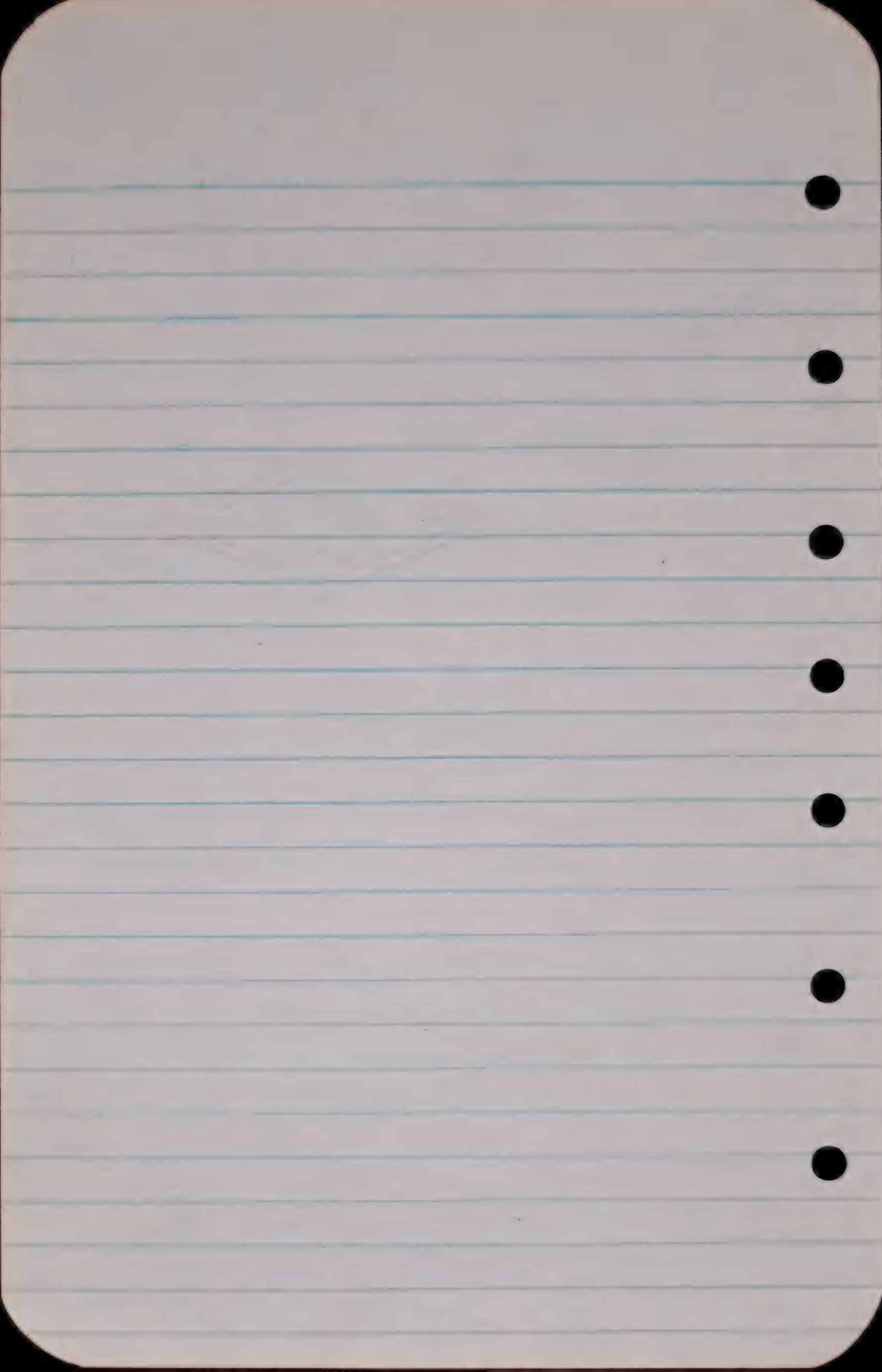
July 16 - Stopped about 15 miles west of Monterrey at about 3000 ft elevation where vegetation was particularly heavy for the region. Thousands of hoppers most abundant though no great variety of species.



15 miles west of Monterrey (cont.)
July 16

Two species of *Perixerus* like
hoppers abundant - *Hesperotettix*
viridis? common - Caught one
of *Hesperotettix* similar to ones
caught on river in same type
of cactus. Small acridid with
pink on dorsal part of abdomen
common. - Kicked two
Dichopetala's out of tree yucca,
but did not catch them - looked
similar to ones secured North of
Monterrey

Stopped for lunch at Monterrey and
then took the road South - went about
fifty miles - about six or eight
miles South of Montemorelos -
Valley leaving Monterrey quite
fertile and many citrus orchards.
Country immediately begins
to take on an arid character as
soon as the road gets away from
the mountains which rise up
very sheer. Made a very pleasant
camp on part of old road just
off the new road. Situation
rather high compared to most

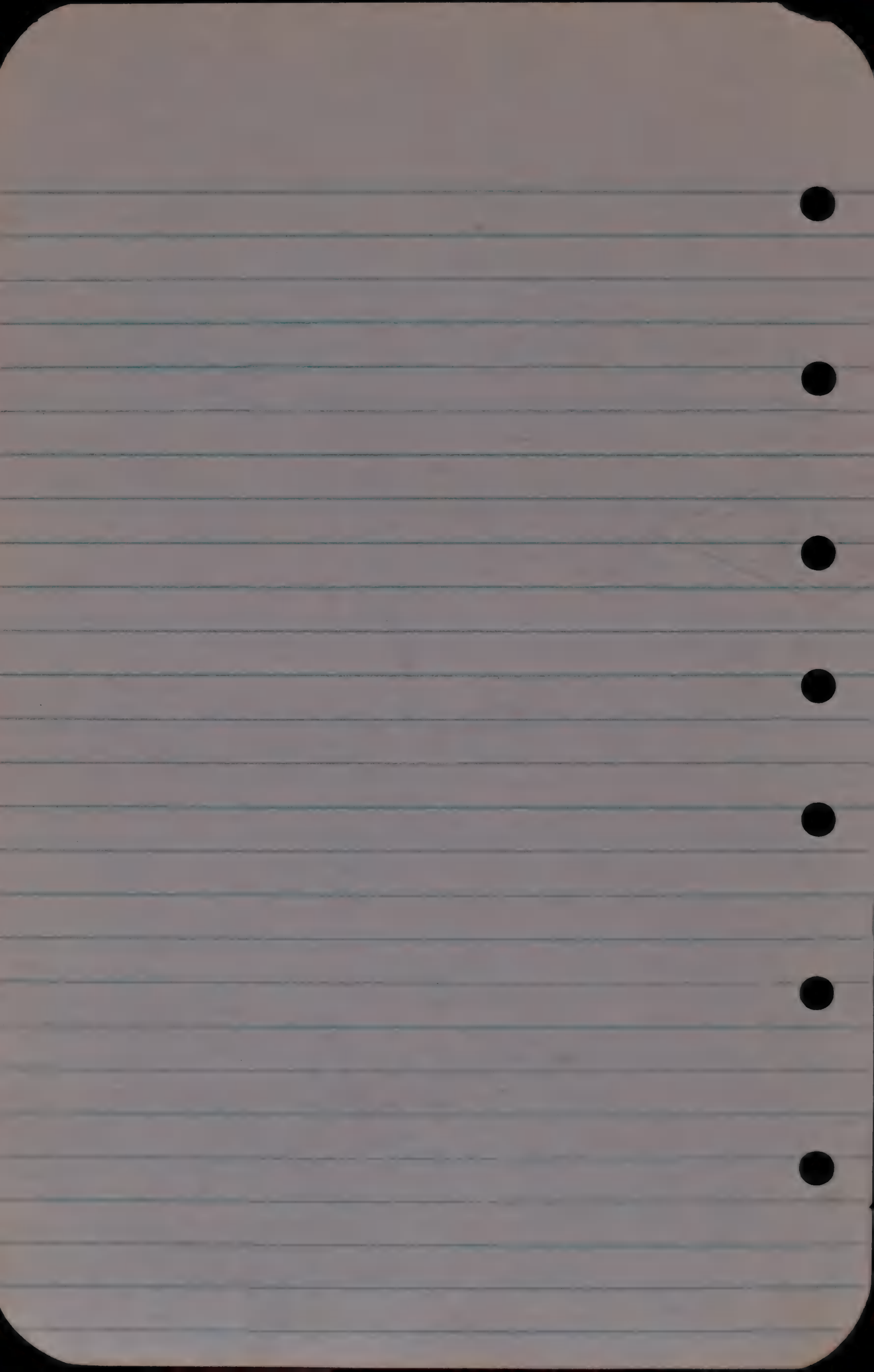


Montemorelos (Cont.)

of the surrounding country.

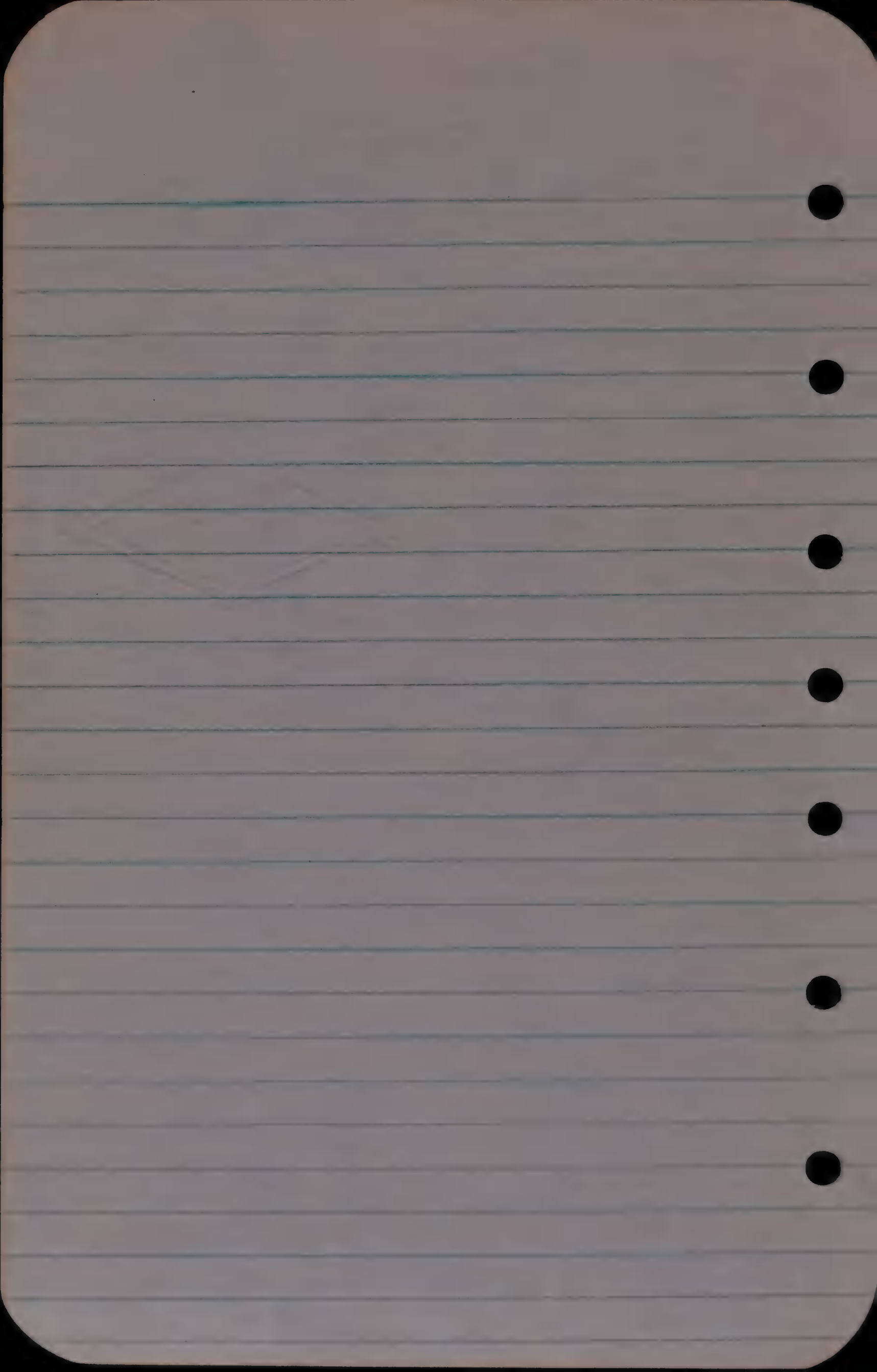
July 17th - ^{kilom. 902} collected around camp in the morning - bushes fairly thick about twelve feet high - secured several species of short winged Melomeli, Syrphula, Scyllinops and one Scyllina like grey hopper with fairly long wings? Chased out a number of Dichopetala out of Yuccas. In general the dryer part of the country here does not seem very productive.

Afternoon went with Ed to river several miles North of Montemorelos. Much vegetation along the river and much of the banks frequently washed by flood waters - caught a number of grouse locusts by sweeping low over ground also got a very tiny cricket - adult and 1 ♀ Hemobius - also got an immat. & an adult Mischocera Orphulella, a new short winged



"Mekanocephali"? - Ed found a place where some Chromacris both adults & immatures were all over the place - also found a Taeniofoda, Ed got a number of a *Aridemonas* and also a bluish small ablyconyx like long horn. Are these Chromacris colorata. I do not remember the very bluish coloration. They seem to be feeding on a large annual weed with thick fuzzy leaves - somewhat similar in character to the plant on which the Chromacris fed on in Acapulco.

July 18 - Everyone returned to the same river about six miles North of Montemorelos called Arroyo Carrapatas - secured a lot of more material. - The short winged fat Mekanocephalid with light dorsal portion to the pronotum seemed most common on the ground under tall bushes - the ground cover was mostly dead leaves



Dr. E H Taylor

Dept. of Zoology

Univ. of Kansas

Betw. 10 & 12000 ft on Cofre de Perote
- crickets under pine logs

Jalapa, Aug 27

Totulco or San A^{ntonio} de Limon
V.C. ~~as~~ ~~Paetla~~ about 8000 ft

Near Las Vigas^{V.C.} in lava about 7500 ft

5 mi W. Paso de Ovejas^{V.C.}

Near Jalapa V.C. - high Savanna

U.Fa.No. /
13999

U.Fa.No. 2
14001

U.Fa.No. 3
14002

U.Fa.No. 5
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U.Fa.No. 8
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U.Fa.No. 9
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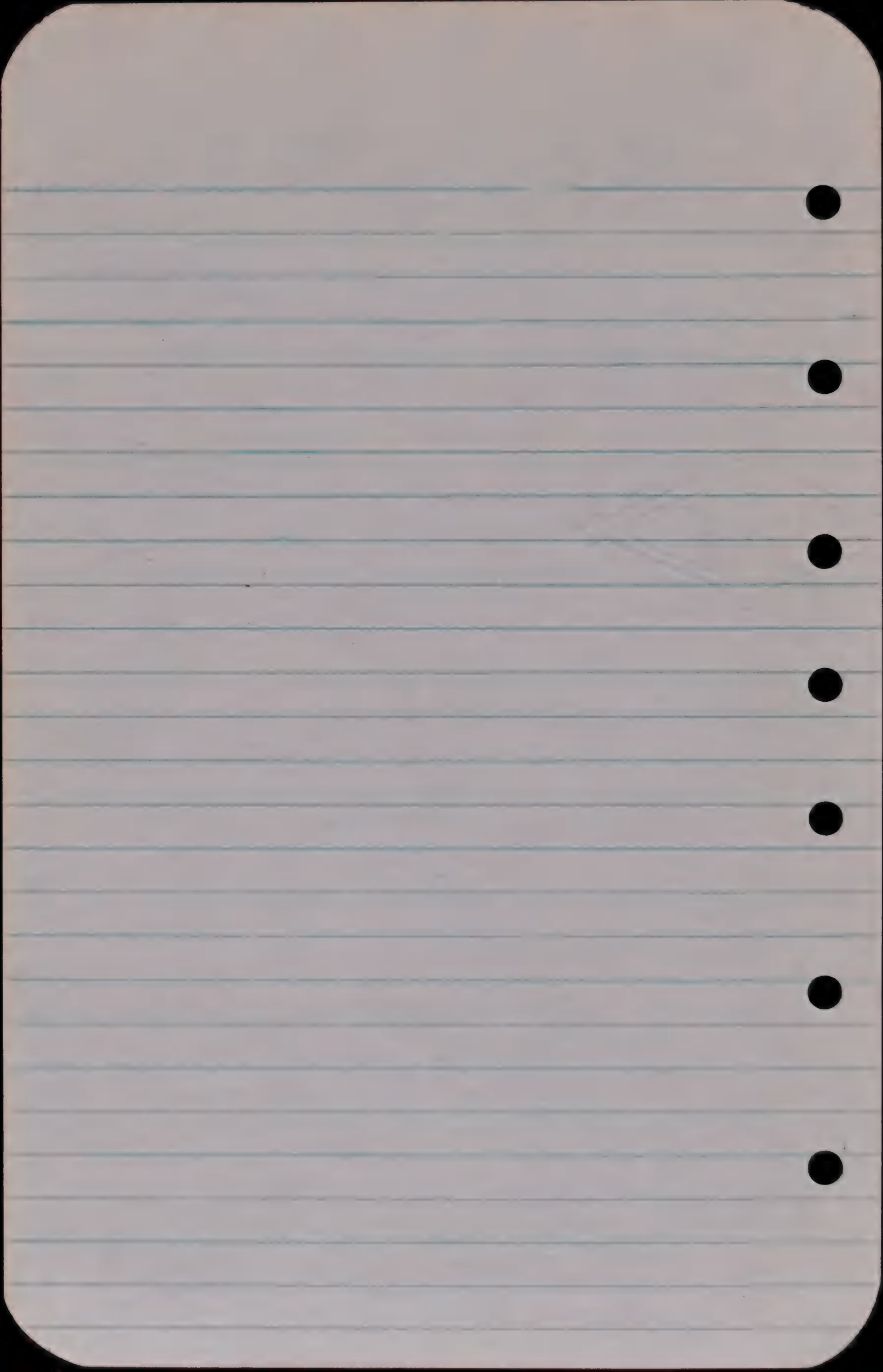


July 18 Garzapatas Arroyo

and a little short grass. Got large
Mantid sitting on tall weed.
Got small *Dielis* sweeping along
edge of river.

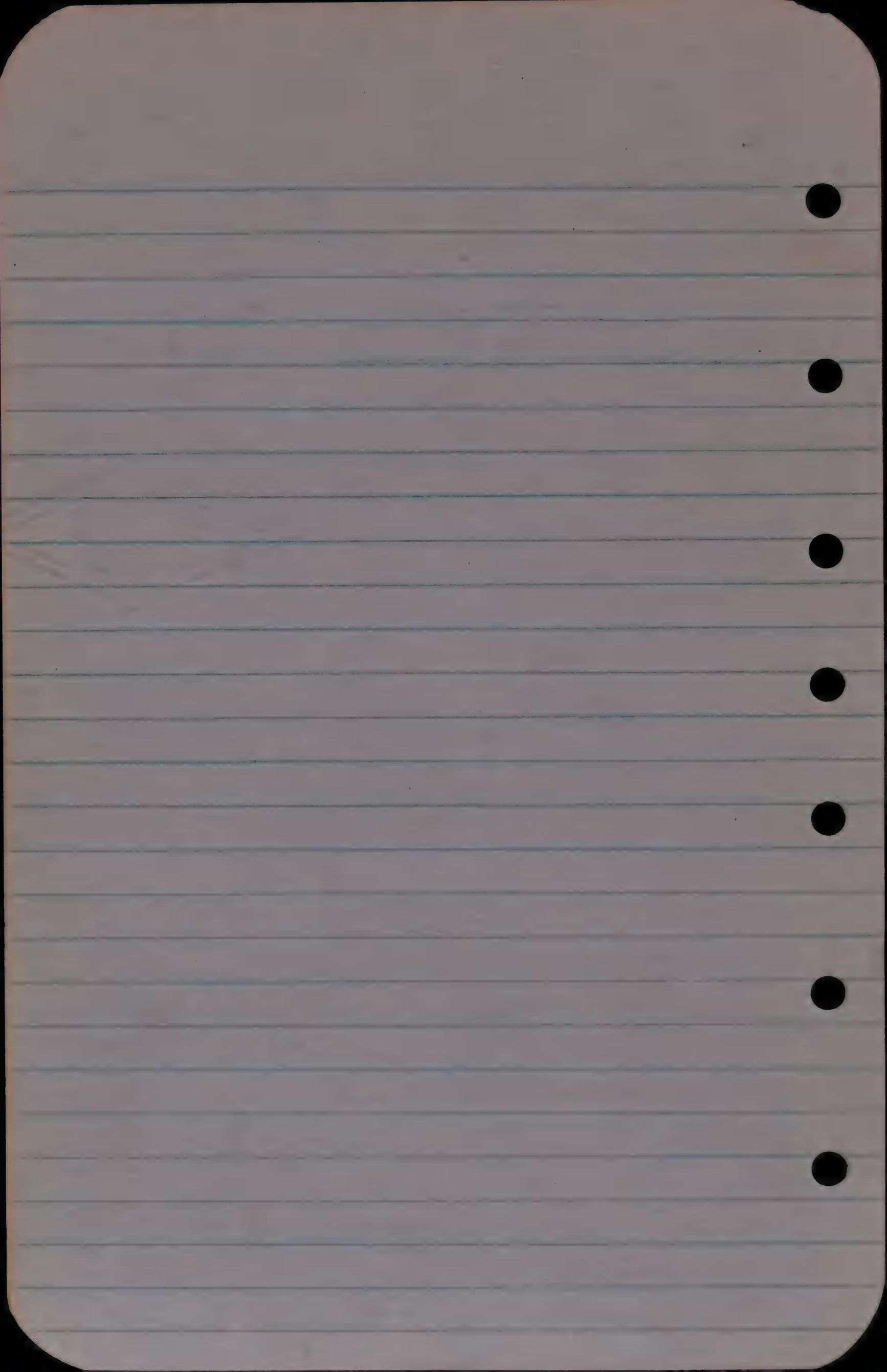
July 19 Went about 35 miles
south of collecting area which
was about 10 miles South of
Simares N.L. Elevation, probably
less than a thousand feet.
Not as good collecting as last
locality. stopped several
places around Simares.
The River there not very good
because probably too much
cultivation. Took female
small *Schistocerca* in thicket
near stream also swept up
some small crickets.

Green *Schistocerca* common
on bushes almost any-
where, but hard to catch.
The country seemed more humid
and more agriculture in the
region. Also probably slightly
lower - Could see small range
of mountains off to the East of Simares.



July 20 broke camp from around
Montemorelos motored to Ciudad
Victoria - made camp about five
miles South near very pleasant
river Arroyo El Capitan - ^{Kilm. 688} about
sixty five miles North of
Victoria. Kilm. 813 there
is an interesting bit of country
rather a high ridge and
quite well wooded - Unfortunately
I did not stop & should do so
on the way back.

July 21 C. Victoria elev. 1000 ft.
Went about six miles North of
Victoria to a swampy bit of
country and found quite a
few new things - *Truxalis*,
large green hopper with white stripe
on sides of pronotum. Got many
grove locusts, *Remolina* and
tiny brown cricket by sweeping in
short boggy grass. Also many
Conocephalus. Found short trail
through bit of heavy wood got a
Oecanthus? and cricket with
wide wings - Also the



Victoria July 21st Cont.

fat with grey dorsum. - *Chromocoris*

Common in a few spots.

Got small grey of *Schistocerca*.

Ed caught a couple of male

Hesperotettix like hoppers

Are these small short winged
hoppers *Phaedrotettix* - There
are apparently three species
about & most easily
distinguished by the color
of the ends of their femora

July 22 - Went up road to

San Luis Potosi - went about

12 or 15 miles up to 4000 ft. - collected

between 3-4000 ft. - road was

very rough and could only average

about 6-10 miles an hour with

four or five fords, some well over

running board. Did not

have time to go further, but

road seemed to have reached

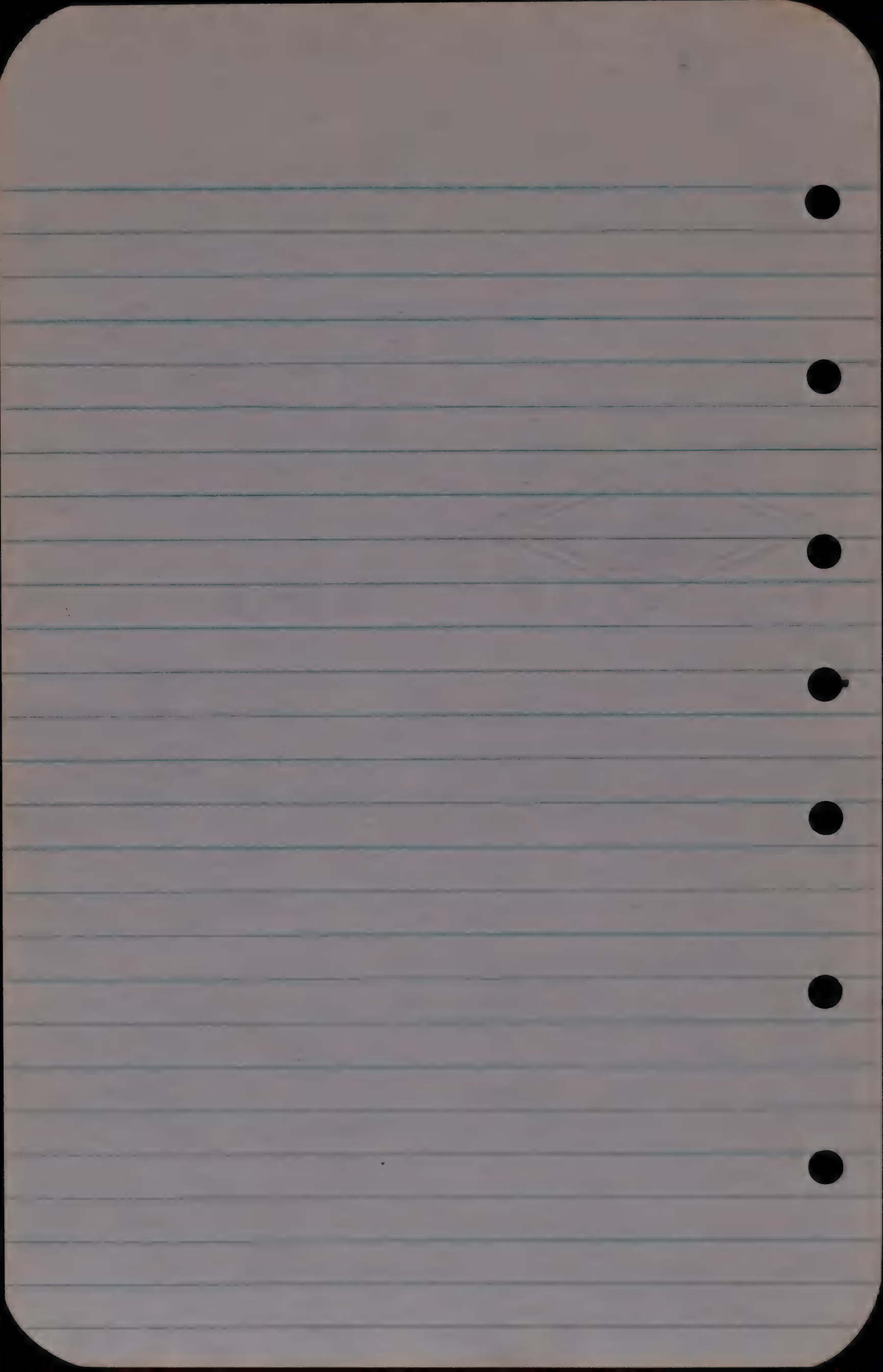
the top of first main rise

and country looked pretty

much the same on ahead.

Did most of our collecting at

4000 ft. rather low valley about

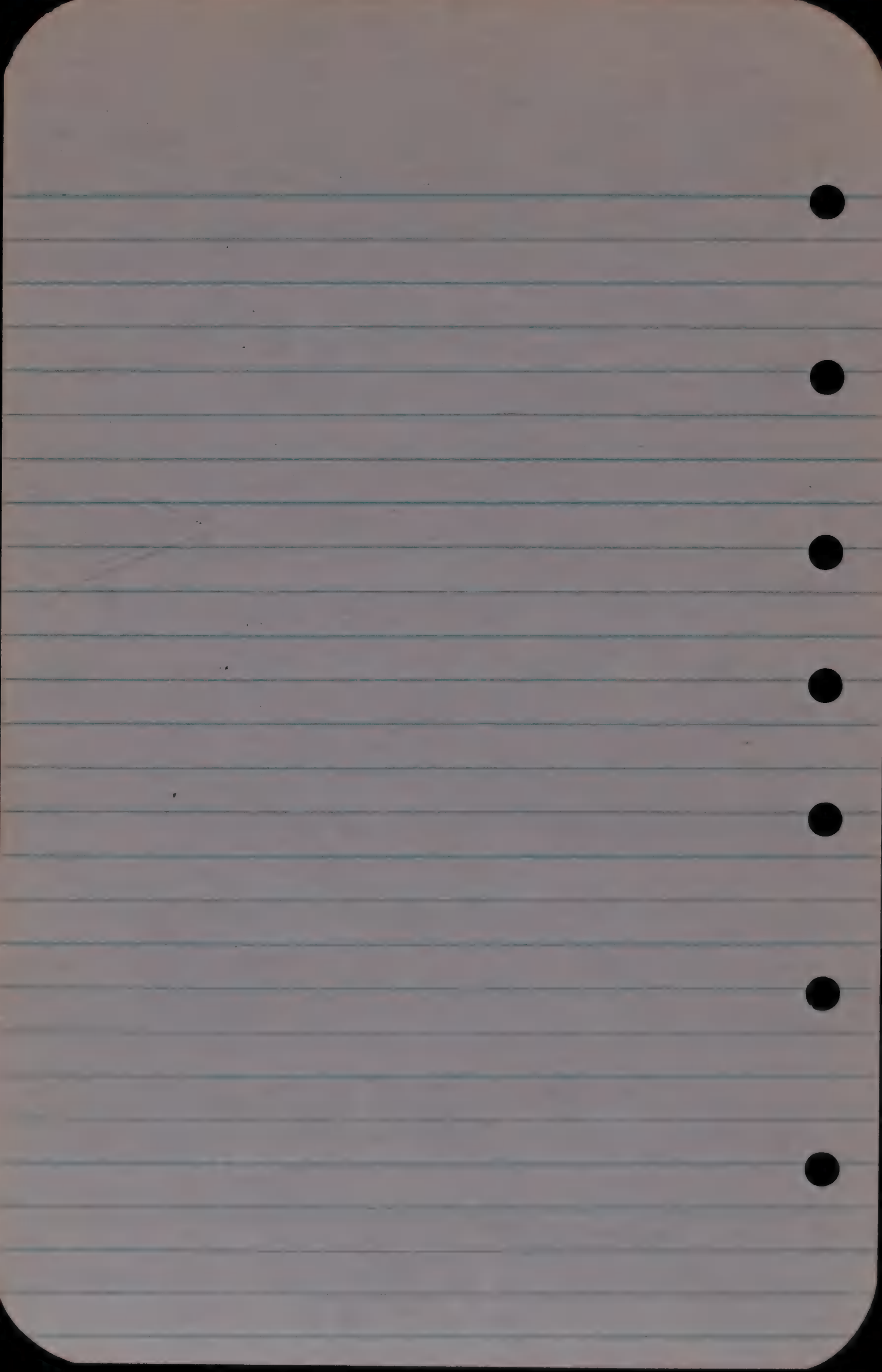


15 or 20 ft high some grass and bushes and much dead leaves. Got the short winged *Phaenotettix* & *Malonopis* on the ground. also the short winged *Tryxaline*.

Got some *Memobius* and another largish cricket which I thought had largish wings but had none when examined later - were they knocked off. Got two kinds of *Pyrromorphus*? - *Schistocerca obscura*? *Dichromorpha* *Oryctolima* short winged long horns, *Dichopetulus* which were in the pear cactus.

Villa Suarez July 23

Left Camp near Victoria and Motored to Villa Suarez went over quite a rise Mesa of Hera then down to quite a low elevation then got into quite a tropical valley fairly well wooded then country flattened out for some thirty five miles to Suarez - some bits of the country had quite



a lot of Cabbage palms - did not stop at the above places but think we have covered much of the same region here

July 23 - Afternoon went about 12 miles North intermittent showers - best collecting spot was between El Limon & Suarez near Cabbage palm stand. natural grass & weeds poorly drained land - Short winged (pointed) *Melanophus* common - Ed got a *Boopelton*. Phil got the small *Melanotis* got an immature *Leptocoma* went to river along which there was quite a thick high tropical forest - poor collecting as it was so wet - got *Osmia* & *Viloria*

July 24 - Rained all morning as well as previous night. went to ridge about fifteen miles along the road South. Very interesting and rich

h 5

pl

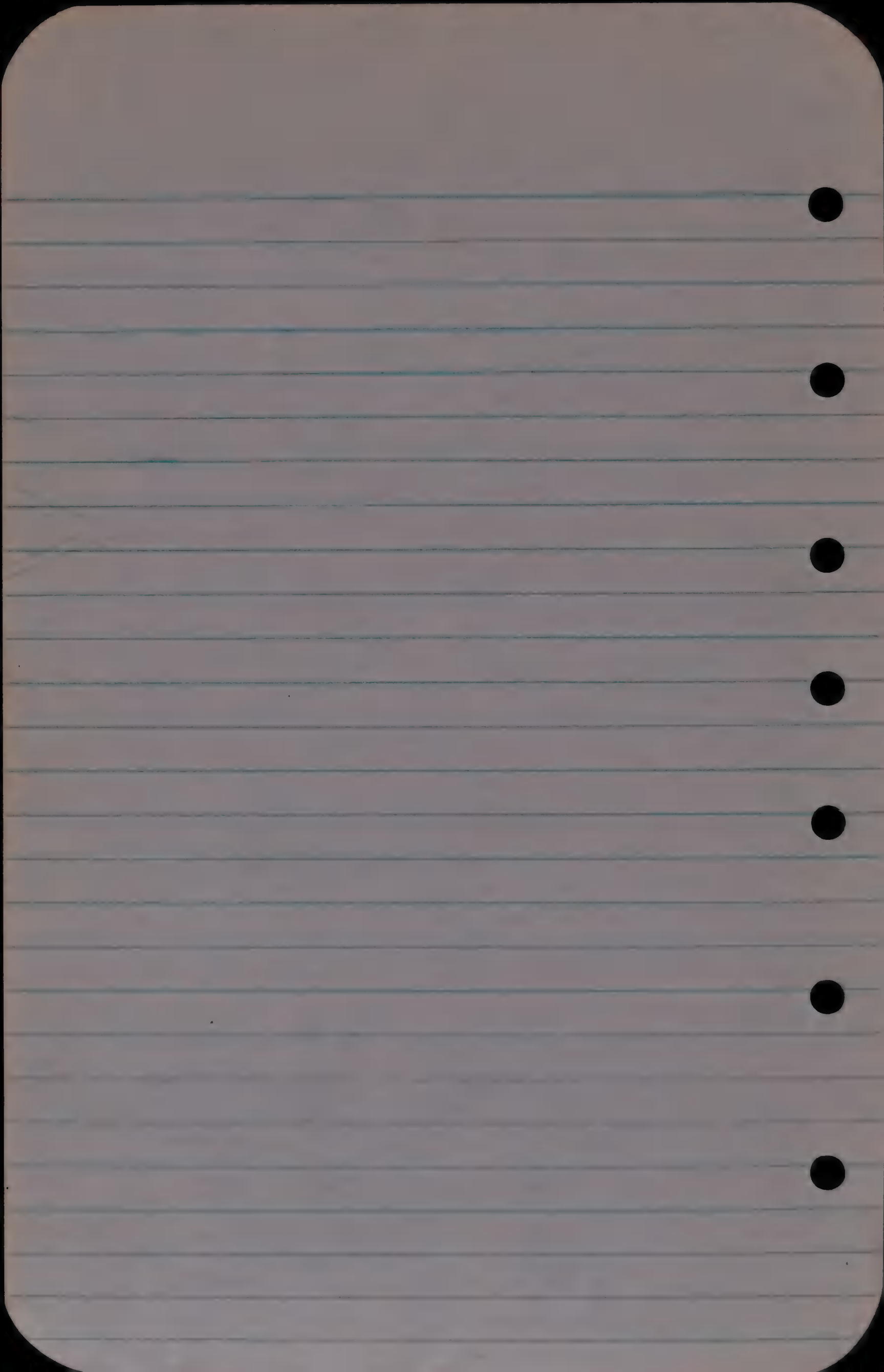
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Villa Juarez (cont')

tropical growth. Got a lot of interesting stuff - also ran into an army of foraging ants they were not large but great numbers - stayed around them for a about an hour until they began to return to their home. Got two kinds of interesting crickets and *Dichopetalus* & immat cockroaches. would like to find a similar situation again. - Caught both light green brown & second like crickets (2 ♀) sitting on leaves - Hazel caught the ~~two~~ little walking stick. A new kind of *Myrmica*? Hazel got one of the large ♀ short winged long h. d. r. s. Many *Phaedrotettix* - Usually on bushes - have seen nothing in vine tangles!

- see note at end of July 25 -

July 25 - Hazel not feeling well (Chickadee mole?) stayed home - went about thirty five miles South - Country

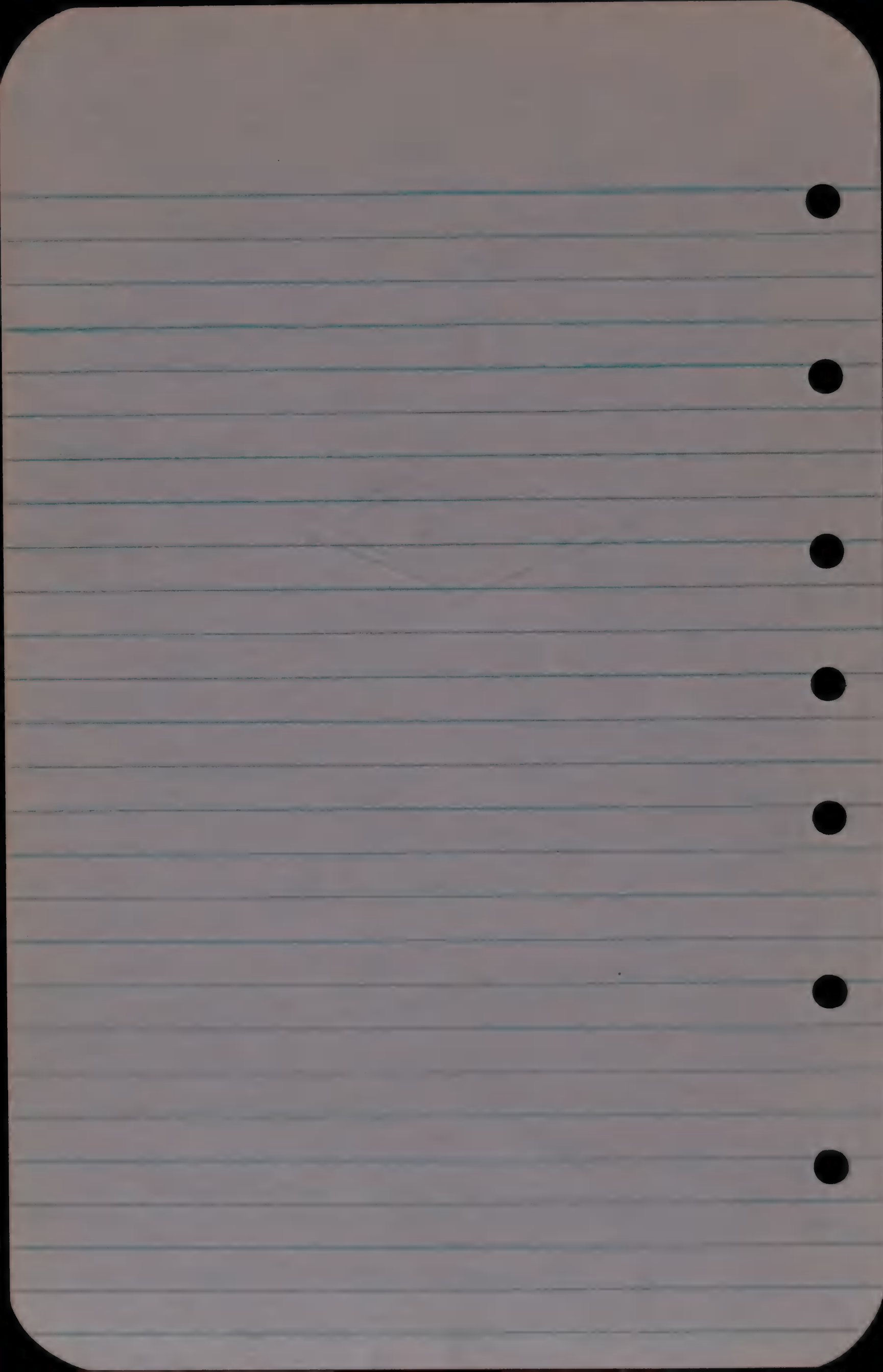


(Villa Suarez cont 2) Tamaulipas.
July 25

rolling beyond ridge and a little higher than Villa Suarez - Collected here & there on the return - some Cabbage palms - found a rather dry hillside and got a few representatives from further north. *Sagbula* common. Little winged *Oedipodid* with pink dorsal abdomen - big headed striped *Oedipodid* - *Aulocorypha* -

Stopped for lunch on the way up ridge - fairly well wooded. Got three new *Tachinopoda* etc. also got rather scarce variety of *Phaedrotettix* (red brown head on side of pronotum & green legs) fairly common but shyer than the others - *Melanoplus* common along roadside on ridge.

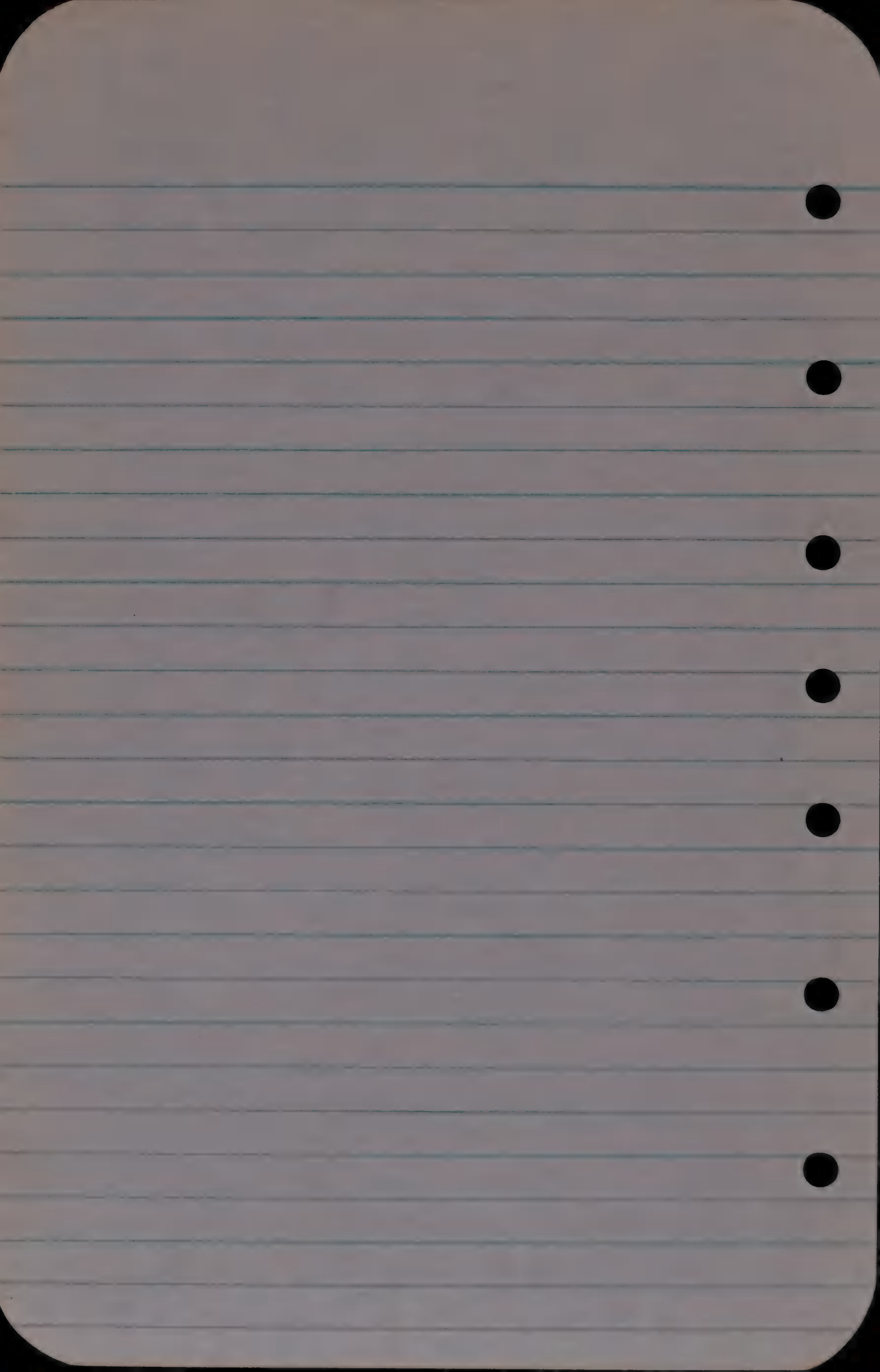
(July 24 cont.) - got *Cyrtotaga* in evening in square - heard a couple of males singing - caught long winged *C. assimilis* in room & short winged *C. domestica*? in room



July 26 - Left Villa Clara in the morning - stopped some forty miles beyond or some twenty before Valles in grassy bit with some Ponciana like trees 30-40 ft high - Caught 4 ♂ Boopis and a large ♀ short winged. also a short winged *Neconophus* and a few other odds & ends & an *Amblytropidia*.

Country appears to become more humid beyond Valles - Bamboo in evidence Vegetation most luxuriant about 15 or 20 miles before Tamazunchale - Had lunch here and started up valley Had to go 30-35 miles about 4500 ft before we could find a camp sight - about a kilometer before reaching Santa Anna a small Indian village

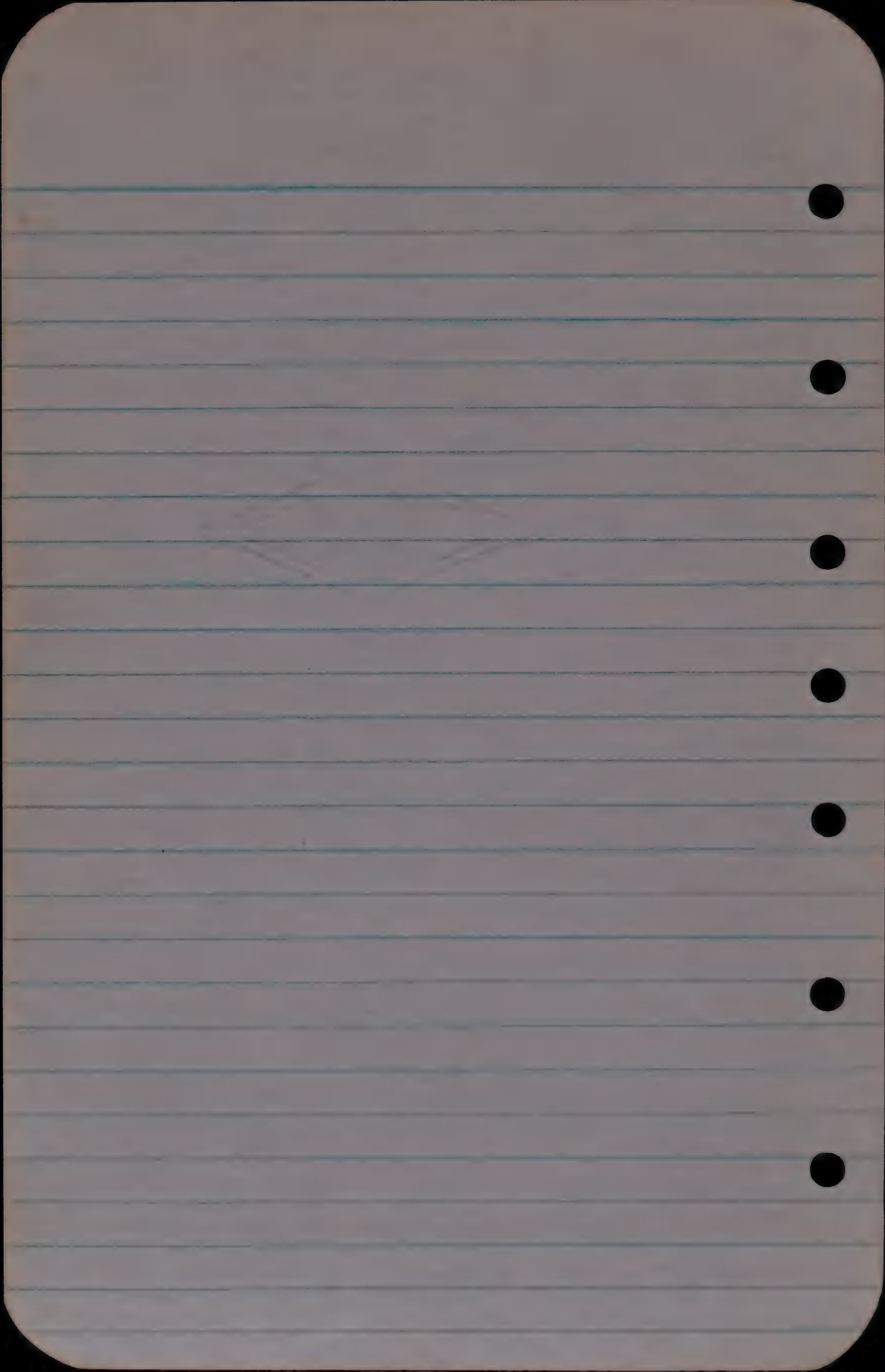
July 27 - went out collecting all morning - orthoptera very scarce - Orpulella common a few *Machaerocera* mostly nymphs - *Aidemona* here a



there but mostly nymphs - there
is a small green *Sclerostocerca*?
nymph (or *Macropsis*) met with
occasionally - got one red winged
clutterer. *Hemobius* very
abundant - Caught many
Pezomachus about camp sight
shiny black crickets with green
legs gotten by beating in
bramble thickets. Have seen
most of them first on leaves -
Have caught a number of immat.
but only one ♀ adult.

Went about 18 miles on
along the roads. winds about
steep mountains but country
much the same - got two *Blattella*
on leaves

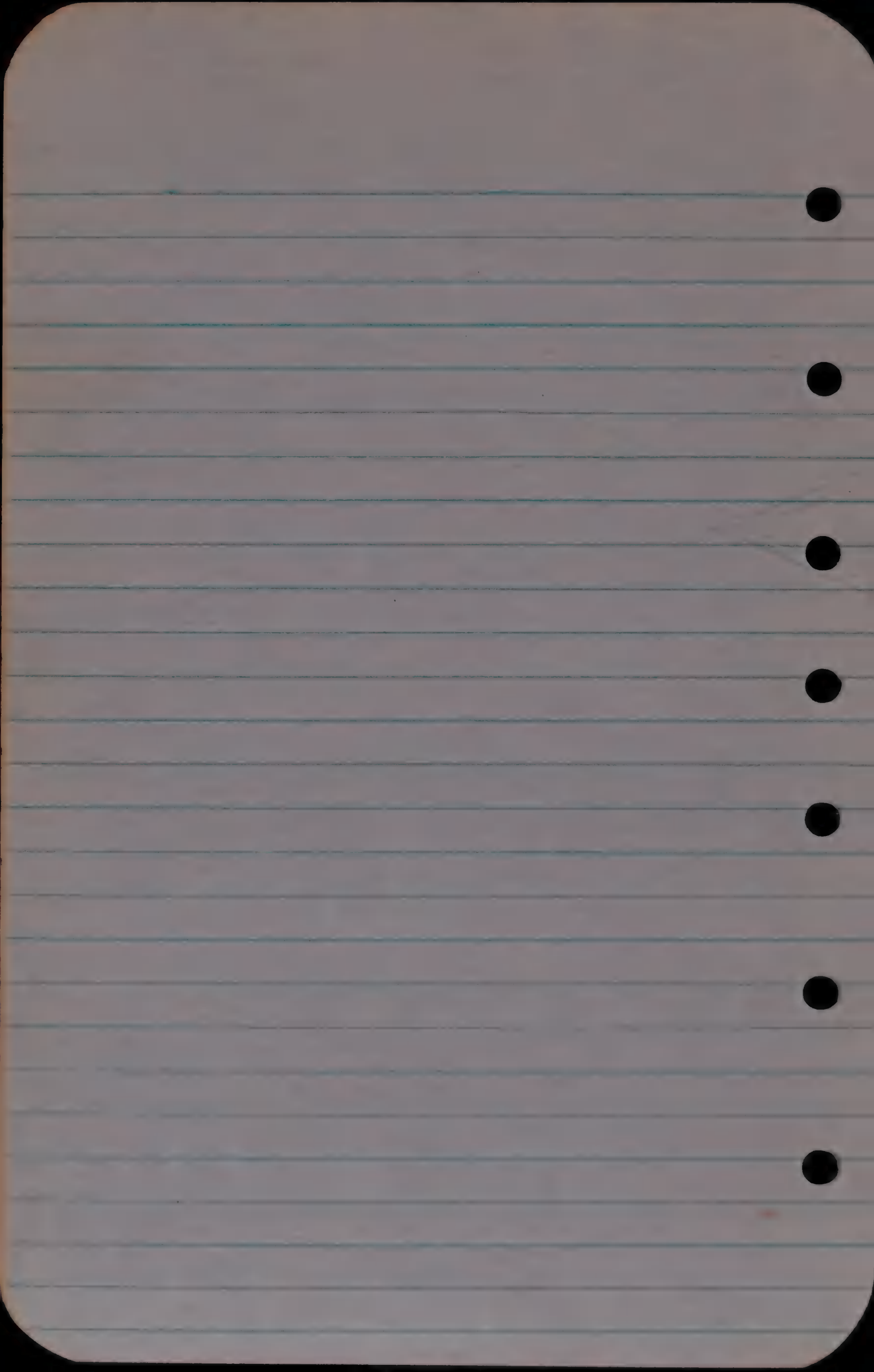
July 28 Tamayunchale
Elevation 500 ft. collected between
1500-500 ft. Left camp with
Ed about 9 o'clock motored down
to Tamayunchale 28 miles
Stopped once alone
3500 ft to see if there were any
of the *Phaedrotettix* like the



Tamagunchale (cont)

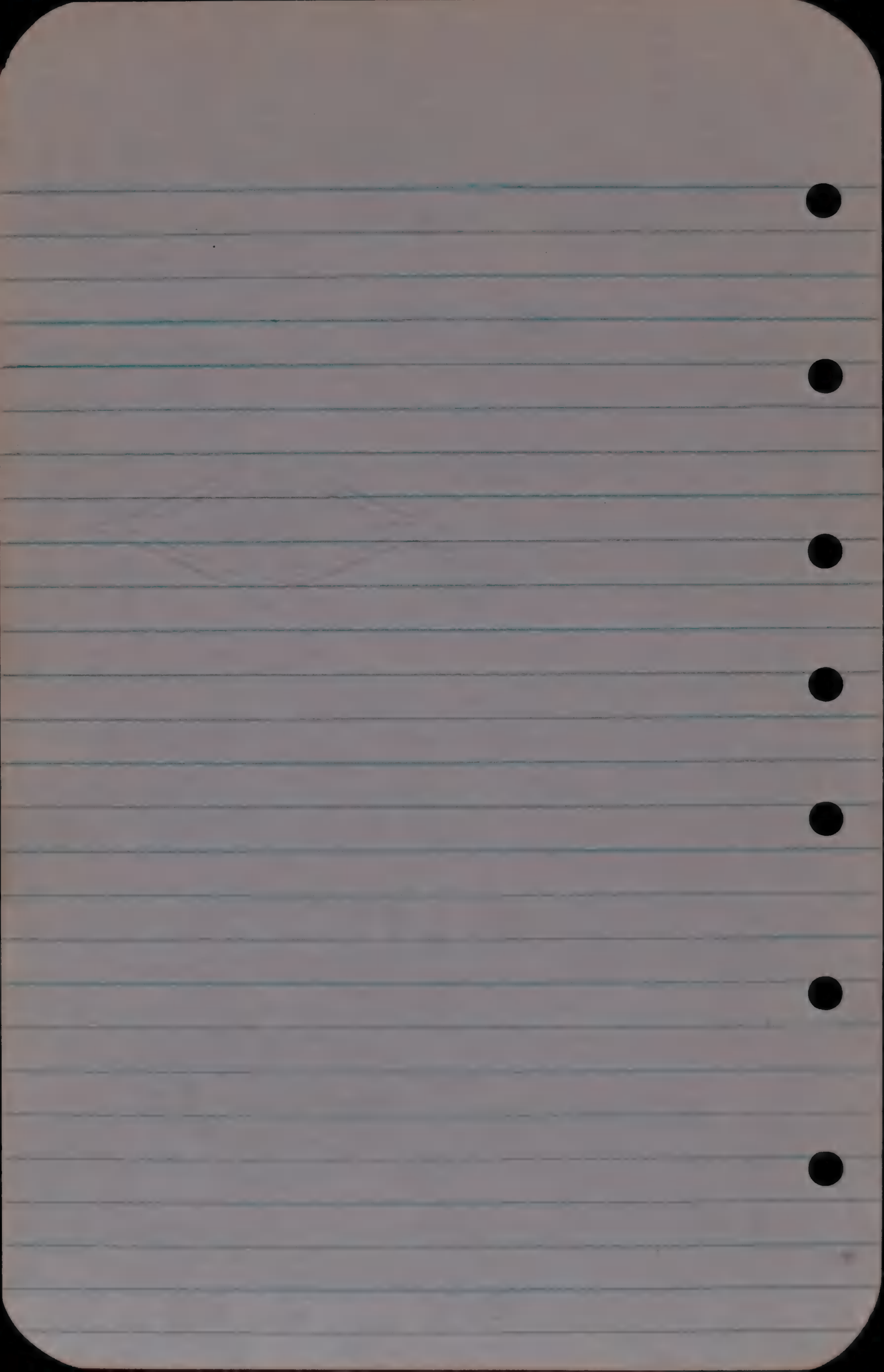
the female taken around the camp. Got one male, but was mixed up with material - stopped several places above Tamagun - not higher than 1500 ft. Got most of the Phacelid-like like like hoppers in heavy weed tangles usually sitting out on weeds - rather puzzled about small blue faced ones. Got two up some ways above Tamagun - without any white on sides of pronotum - the rest of them have white on sides of pronotum - Also saw unusually large green legged brown backed ♀ there that I missed. Also obtained the two males with the red dorsum here the female may have belonged to this species. Got large ♀ Schistocerca here also + Chamaecris. Also Leptisoma like hoppers as well as below.

After lunch went across river for a short ways and went down some ways on a



Tamagouchok (cont)

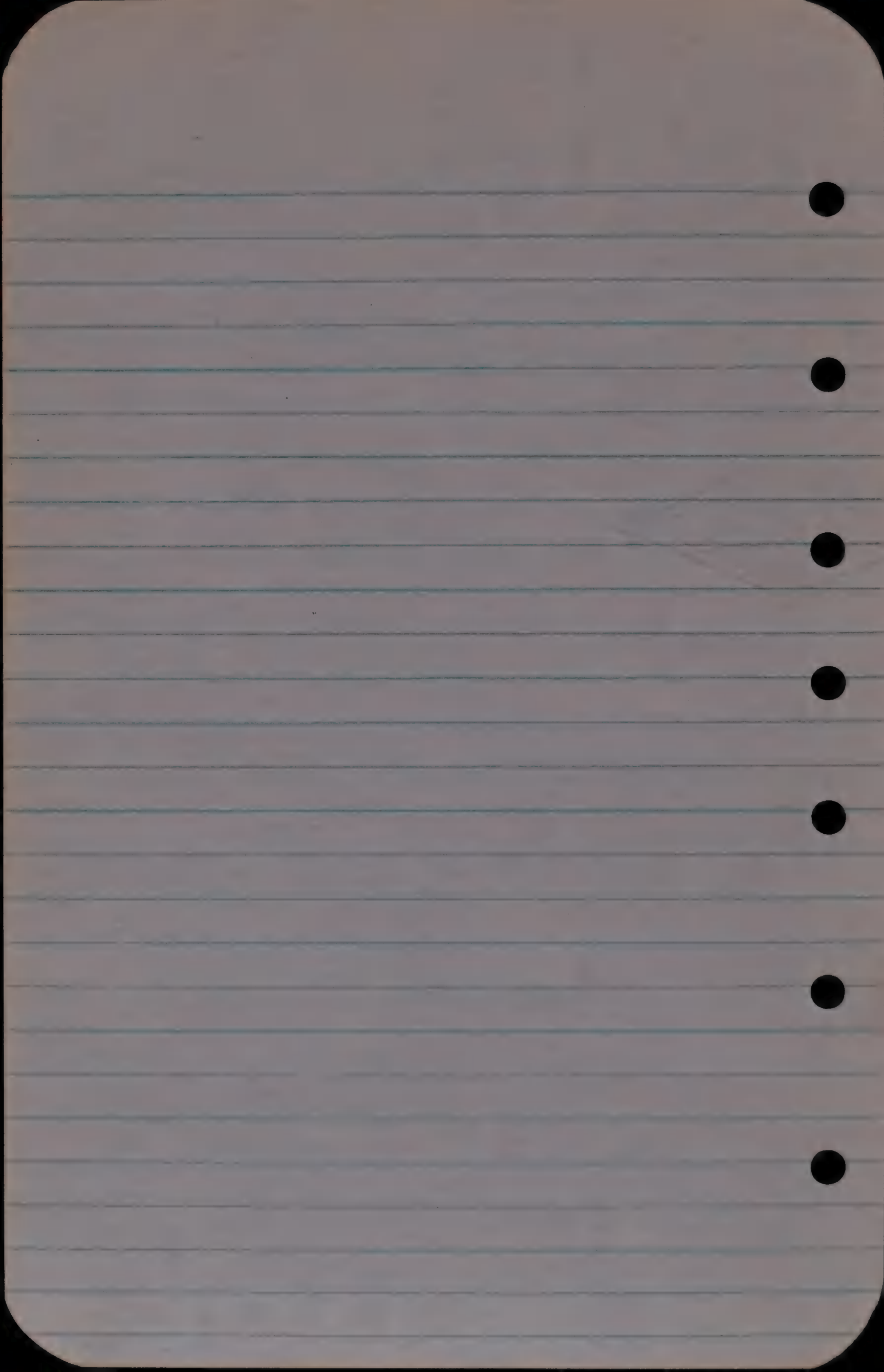
cart road - Many *Phaedrotettix* along road, though far from easy to locate - I picked up most of the red winged hoppers here except of the two tremuloid like hoppers which were taken in the morning. Went down trail in well wooded bit. *Arphola*'s common in sunny bits - Males made a sharp buzzing noise when they flew. Got *Phasmod* on *Brounellia* here - There was a curious grey butterfly that made a rapid snapping noise at times when it flew - Got two and it seems to be due to the bending of the tip of the forewing - got much else here also. At the end of the road there was a grassy field - *Amblytropis*, *Aspidula*, small *Schistocerca*, *Microgaster*, cut crickets along border of field by sweeping in plants and plants at edge of wood also the grouse locusts - Got a pair of *Pezomachus* just



above Tamayunchale -
Aidemona common both
small nymphs & adults.

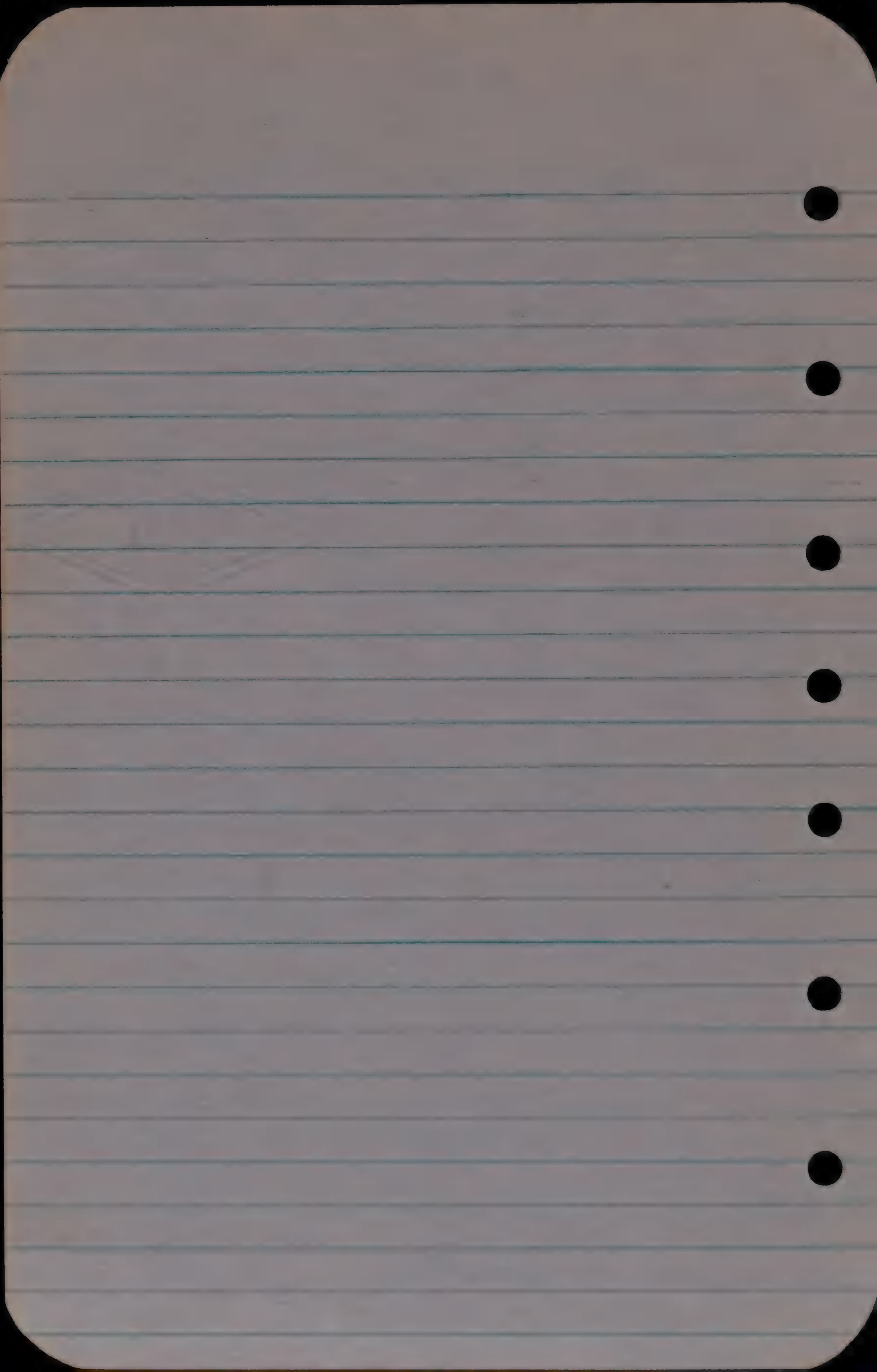
July 29 - Went in morning about
25 miles on road north of Tamayunchale
to another valley and across
large river - Got little or nothing
new in the way of hoppers, but got
a good number of crickets mostly
in wooded part on ground under
coffee bushes - also got a number
of *Plasmodium* - a different species
& habitat. they were found also
in well shaded areas under
coffee plants or large trees.

Afternoon went back up to
camp & collected at stops of the
previous day between 1500 - 2500 ft.
Got nothing much new - Ed saw
one of the red backed short winged
Melanoplus - but could find no
others. - There seems to be very
little above 2500 ft to camp about
4500 ft. - Got most of little black
green legged cricket in some



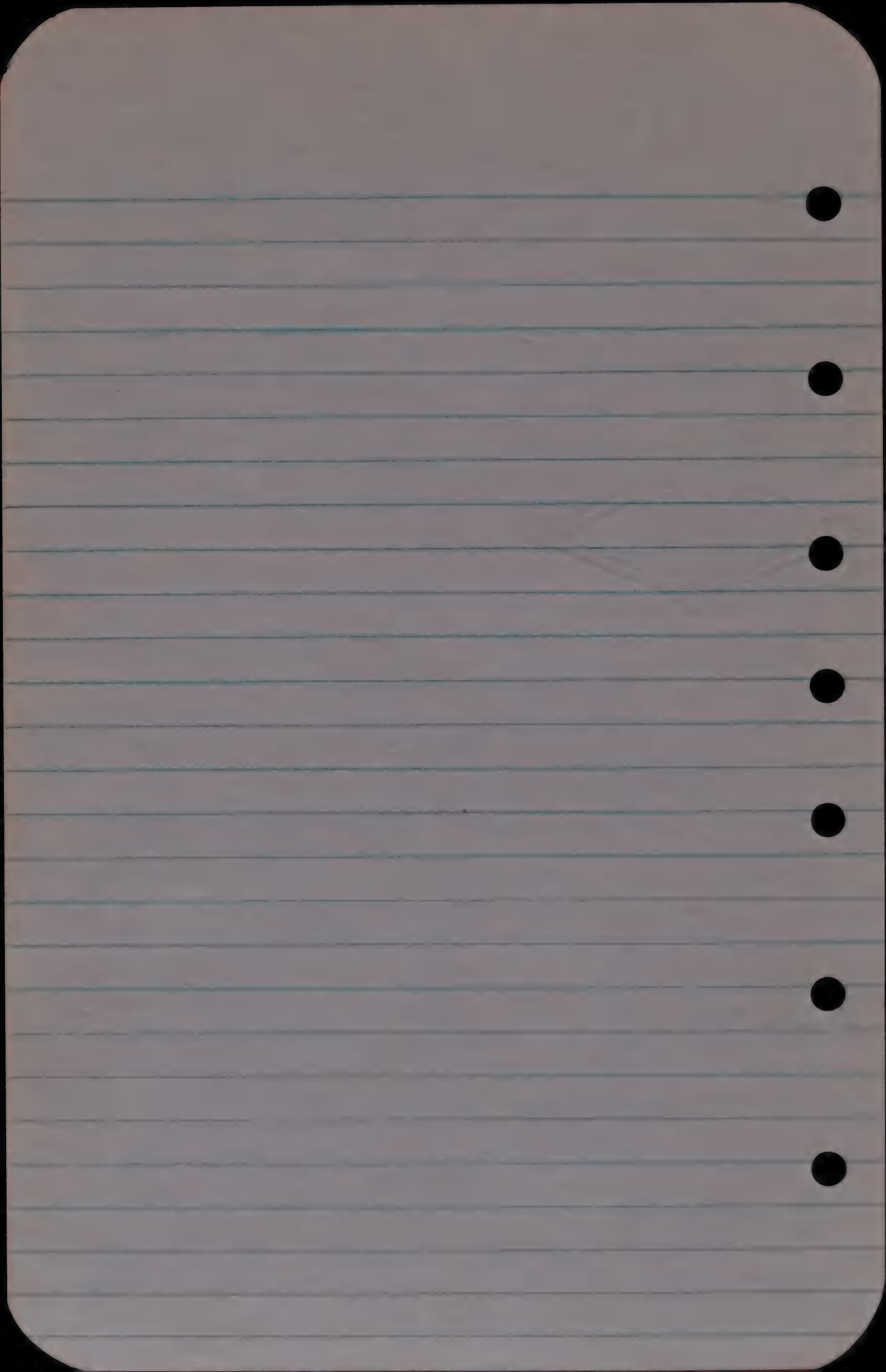
Bushes & vines as before

July 30th left camp and motored through very beautiful but much the same country for about 2.3 miles or within seven or eight miles of Jacala when the country suddenly changes to oaks about 20-40 ft high with scattered pines & ceclars. - It seems slightly dryer and ground pretty well covered with dry leaves & scrubby bushes. Collected here and got a fine haul - there were five short winged Melanophli and a number of Oedipodids - all of the former were picked out of the low scrub - went on several miles to the slope going down to Jacala & stopped for lunch - found several *Dactyloctenium* on bushy hillside - they were in or around clumps of Sumac - quite a different habitat compared to the *Dactyloctenium* taken



North of Monterrey - Motored through Jacala and road rises again very rapidly to slightly over 2000 ft - went about 20 miles beyond Jacala & found fine camp site - country much the same - Hills covered with oak and occasional pine & cedar with bits of short grassy pasture & scattered legume.

July 31 - Returned to Jacala & collected on the way - much the same material obtained as the previous day - got large crickets & Blattids out of small stand of weeds on edge of pasture - practically destroyed the former in trying to exsiccate it. - stopped on dry rocky hillsides with scattered cedars and bushes - wasps. Found *Dactyloctenium* here & Ed much elated. Here again they seemed to be closely associated with the same types of sumac bushes though they were found on other bushes & cedars occasionally.

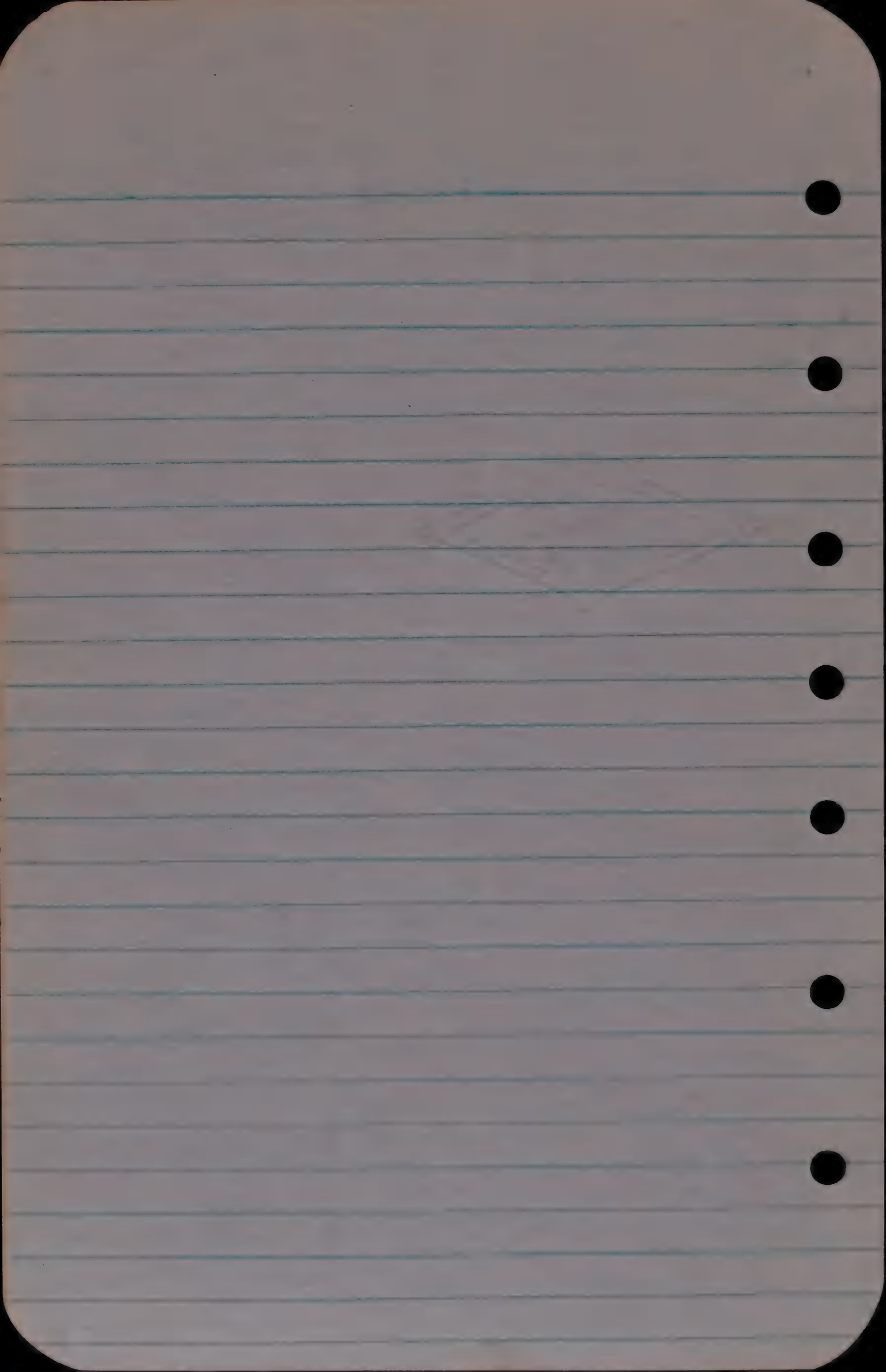


It was very difficult to get any
number as they were found after
much searching in twos or threes
and there were a good many
bushes about to search for them.
Ichneumon was here also and
Ed found a pair in copula - This
was satisfying as we were not
sure if they were adult - The
male is a very small little
thing and looks certainly like
an immature as well as the
female & for this reason probably
frequently overlooked by collectors.
They were found mostly in
among bushes several feet
high as well as weeds. Obtained
several *Insara*? in bushes but
very scarce or hard to locate
- Hazel collected some material
around camp - got five short
winged *Blattids* around stone
in camp.

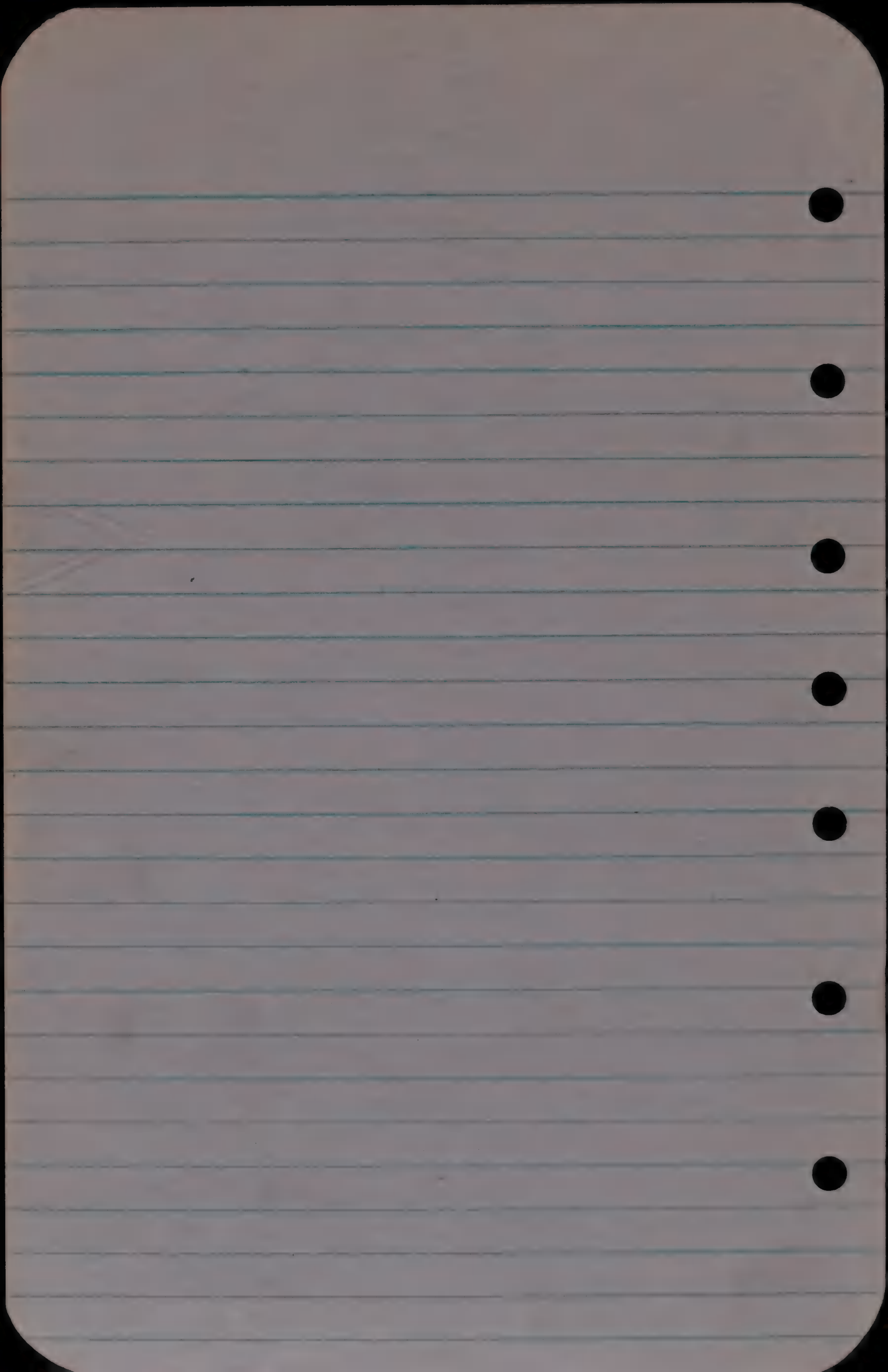
Margaret Vande

Aug 1st - rained all morning
& so did not go out - afternoon
cleared late - puttered around
hillside with hoe - found four or
five *Centrophilus* and an immature
"kicker"? under dead agave plants
on wooded hillside - ground rather
damp - much humus - set out
traps but no result - night very
cold -

Aug 2 - went south about 45
miles to Temiquilpan going
through Timapan & crossing
the Tula river twice - average
elevation between 5-6000 ft
Country suddenly get very
dry about five miles south
of here - very little vegetation
at all - some very short
grass and a few scattered bushes
& cactus - just before Timapan
however the rather luxurious
type of arid vegetation begins.
Large cactus of all sorts &
bushes - very little grass -
this type of vegetation



more or less continues at least
as far as Samiquilpan - we
did a good bit of collecting
just beyond Timapan
got a new type of *Ichneumon*?
many found in poplar - found
the little *Melomachus* that I
obtained last year near
pochuca. *Syrphid* common -
a great number of *Oedipodid*
nymphs about & Phil got a
Dactyloctenium nymph - I got one
further on - they were little
more than 2nd or third instar
also on Immature *Tachinids*
on a large Pear Cactus. Got
two red legged *Trimerotropis* on
road way at first bridge
of Tula River, a few *Schistocerca*
about as well as *Thrinax*
fulvipes - Hager got
female phasmid as well as
curious little ♂ cricket
It should be interesting
to collect here later. —



Aug 3 - broke camp collected again at locality beyond Timpan Km. 196 and got more of same material

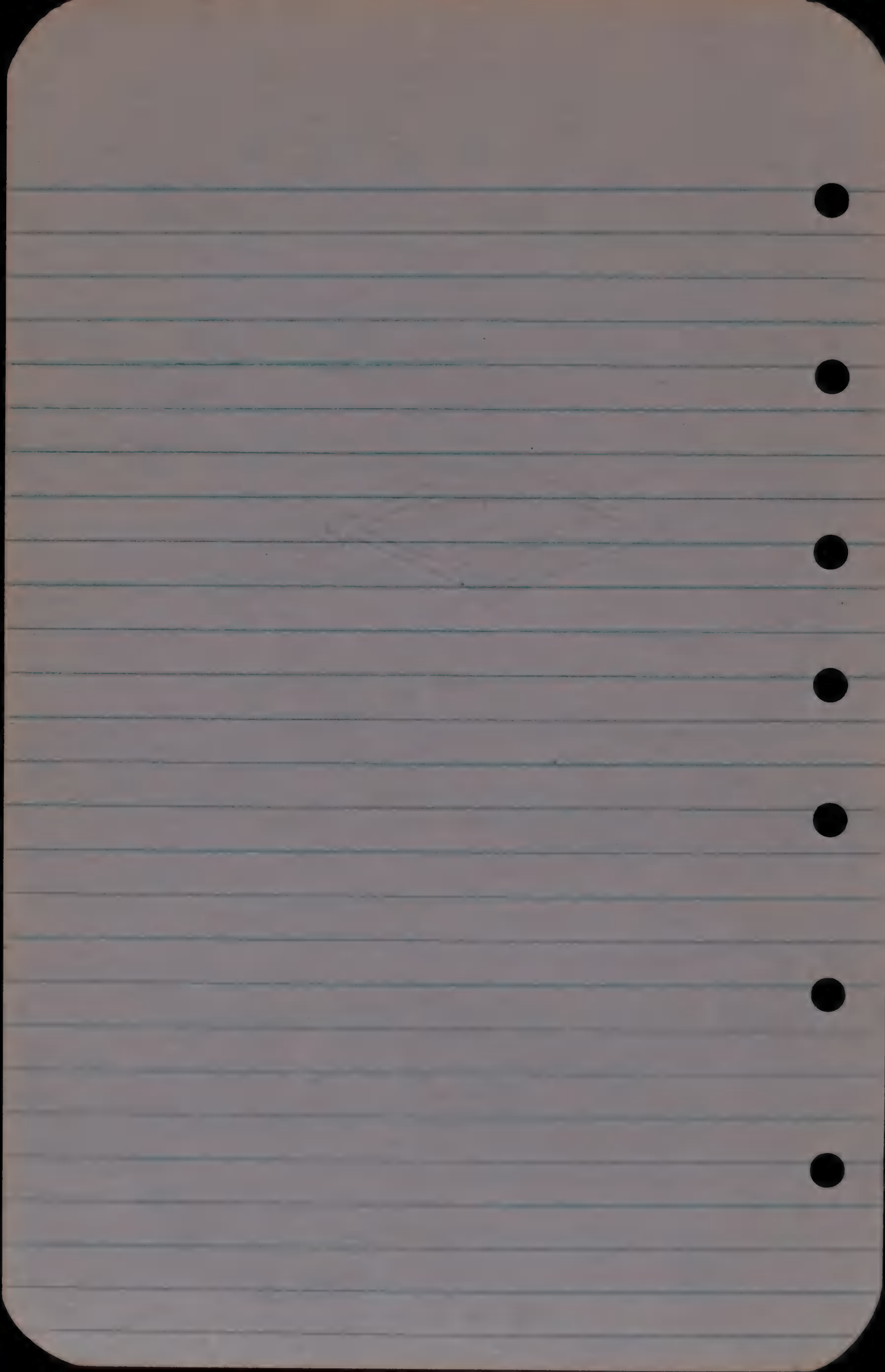
Stopped later for lunch beyond Amiquilpan - more arid - little or very little grass - got one of the small melanopli however -

went on to Tautilucan and spent the night near the temple - very little in the immediate vicinity except myrmecophagous were all such the weeds cut about only second instar.

There were a few odds & ends about as *Trimertropis pallidipes*

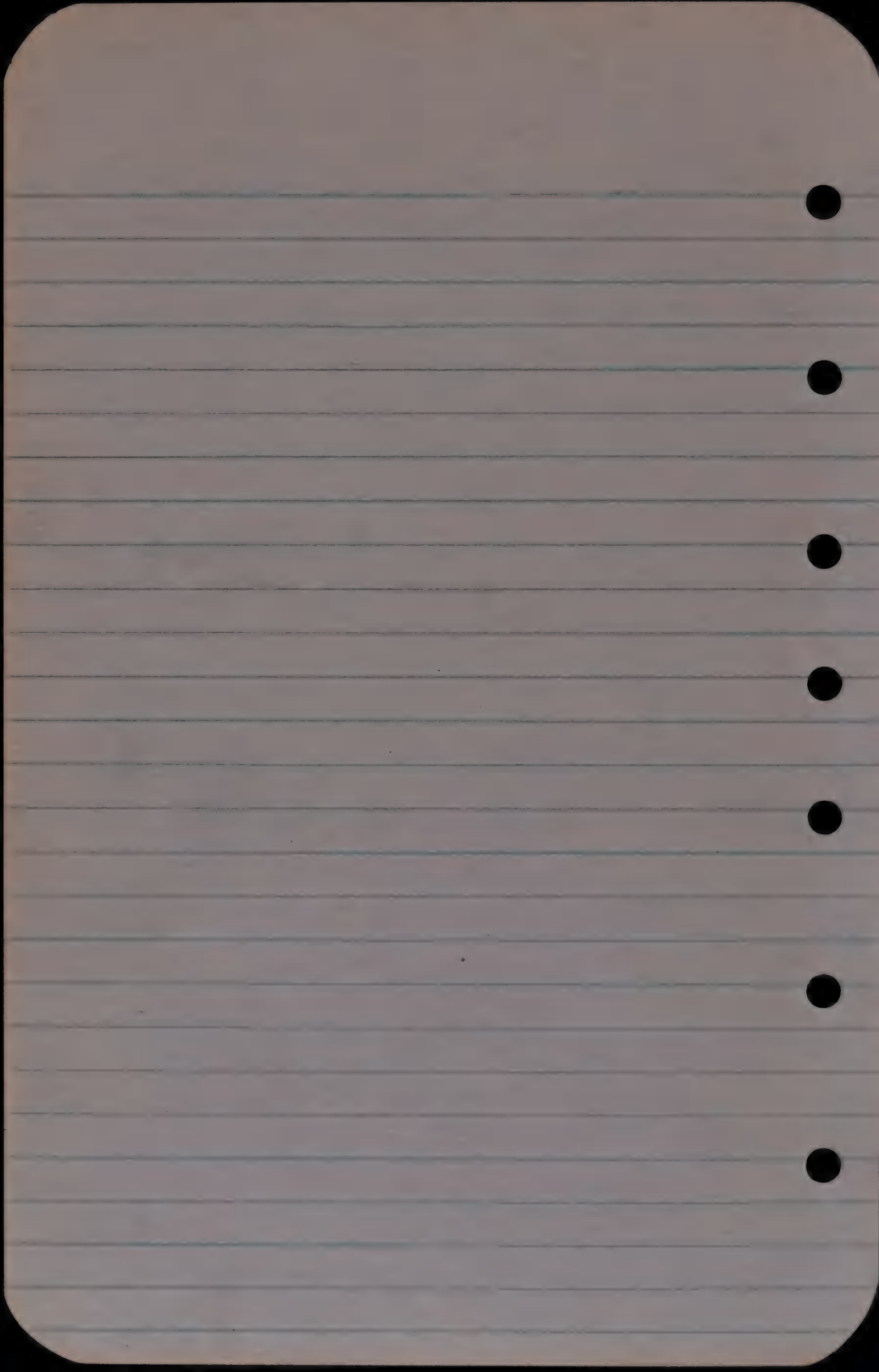
Aug 4 broke camp and went to Shirley courts Mexico City.

Aug 6 - had lunch at San Angel in with Hazel and motored up to Convent in heavy fir forest - stopped at grassy bit near road 8500 ft



and found a number of short winged Melanoplus in the grass & weeds - there appears to be more than one species as one male was darker with red legs - Ed took the ad. marks of it - worth returning there again

Aug 7 - Started for Acapulco - stopped for minute in high country with tall grass 9000+ ft. got a red legged flies - there were a number of small melanopli nymphs - stopped on way down to Guernavaca 7000 ft pine and oak cover grass sparse grass & weed cover - pine needles - got a short winged melanopli Schottkii - the latter abundant - many Audubon & took a series as there seemed to be a good deal of variation Phil got a tettigid & a very small Oedipodid - got Hemelius along edge

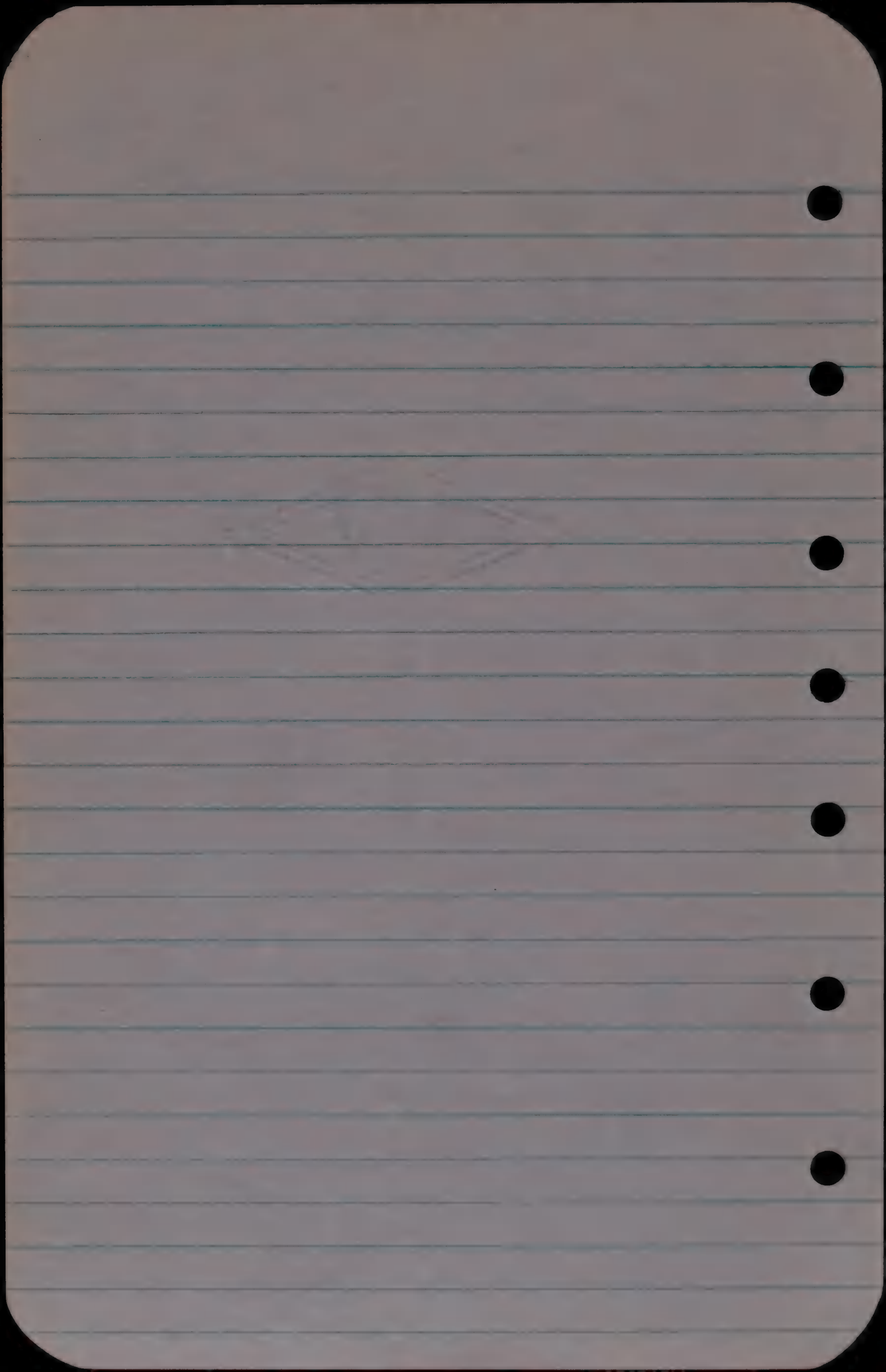


of road in short grass

Sphenarium 2nd instar
also common along edge
of road.

Stopped for lunch below
Cuerpo de agua near small river -
Sphenarium nymphs - 3rd instar
about very abundant
in weeds & grass - got three
mantids here also - got
Blattellid by beating brush
Scylliops in grass also
Amblytropidia - many
nymphs about.

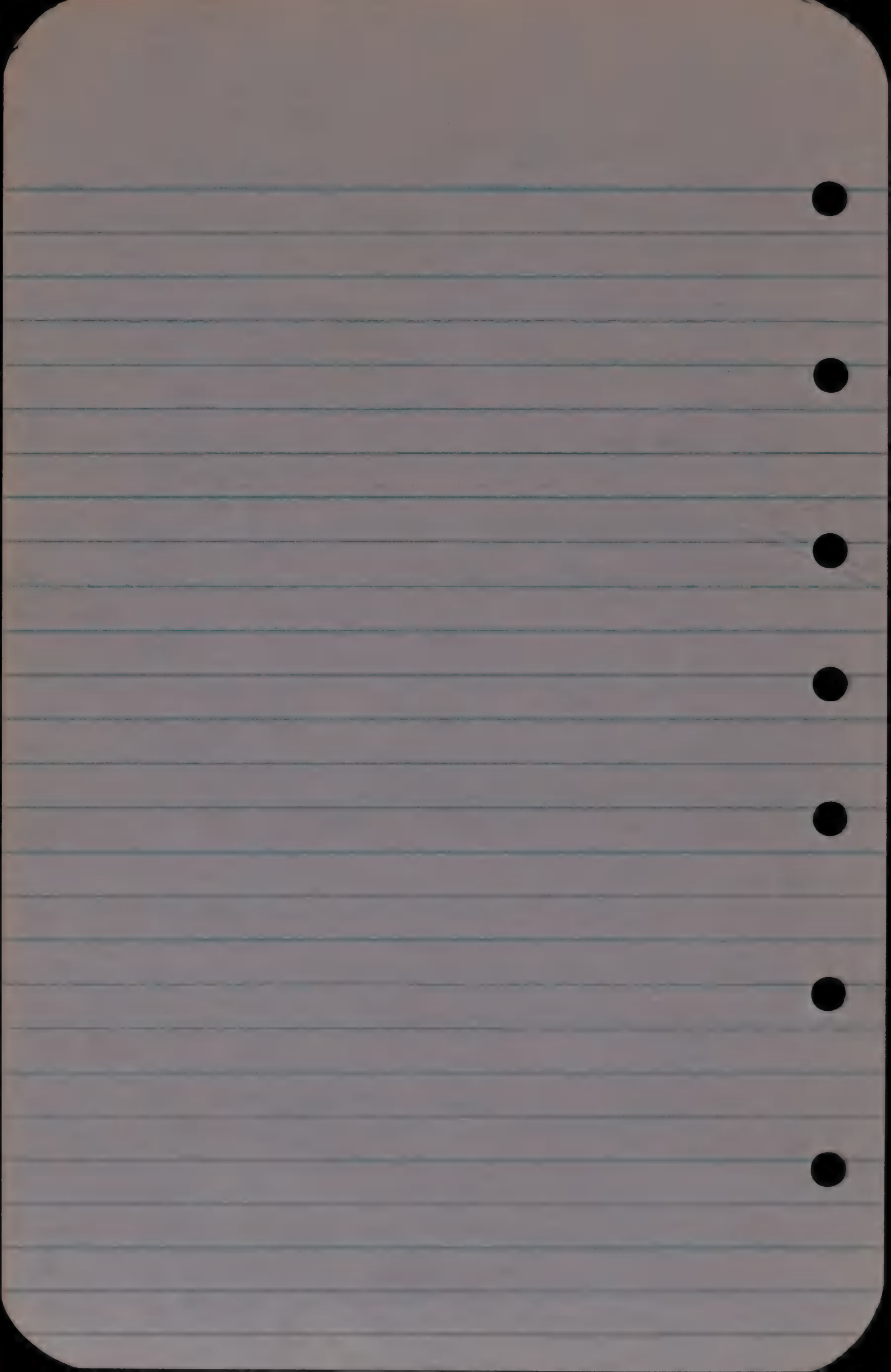
Aug 8th made camp night
before a few miles above
Esquela - collected a few
odds & ends about camp before
leaving - stopped to collect
on the far side of the
habsas - everything immature
except for a few flies
Sphenarium everywhere -
collected just before
Chilpancingo & got little
of interest but many nymphs



collected just beyond gorge with
rather luxuriant vegetation
got a couple of blattids out
of the bushes. - stopped
for night in park like
country 5000 ft - thin pine
forest with grassy cover.
This part is apparently
drier as the vegetation
seems very scant. very few
hoppers

Aug 9. went direct to Acapulco
no collecting made
very good camp - Langosta
beach in coconut grove
owned by Sr. Olivar

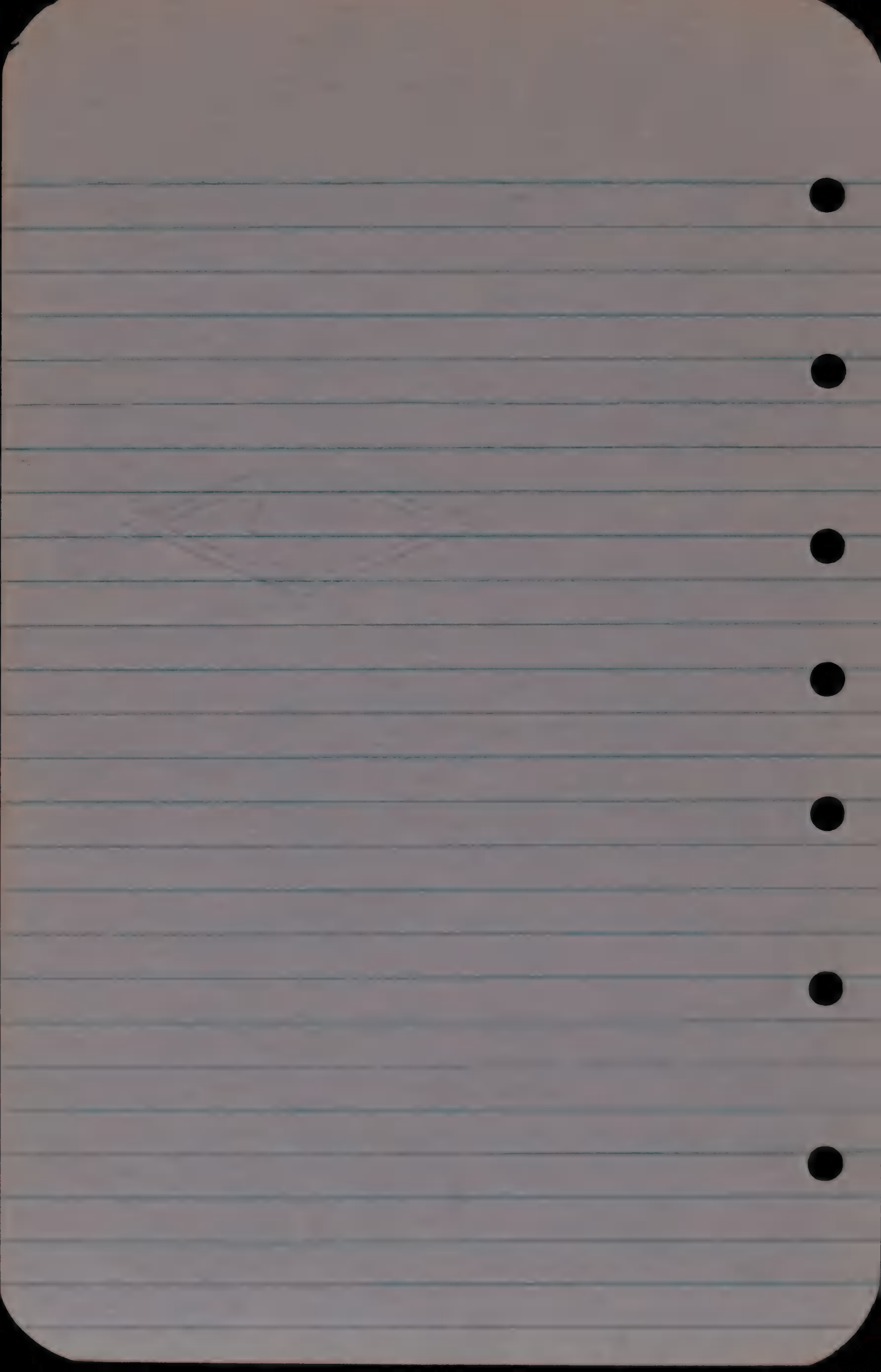
Aug. 10 - went out on road
north. everything seems
much further behind than
last year no adult *Glossina*
have found no *Chromacris*
where I saw them last year.
no adult *Neotoma*
got one *Eumecurus*! in
short weeds under trees about
25 ft high bordering pasture



spent an hour looking for more
but found no sign of one -
looked everywhere - got a
good series of 2 species of
Oedipodids in dry gravelly
wash - frightfully hot

Aug 11 went north on road
again to look especially
for Eumecurids - Ed said he
saw one & had it in his
net but escaped on shrub
on edge of path through some
high shrubs - no sign
of them otherwise - there
is a little Melanoplid
hopper with blue legs (about
but not adult).

Aug 12 - went out to Pic de
la Cuesta got some two
small species of long
horned 11 members - found
the short winged Acridid
in peculiar grassy field
- quite different from
locality last year

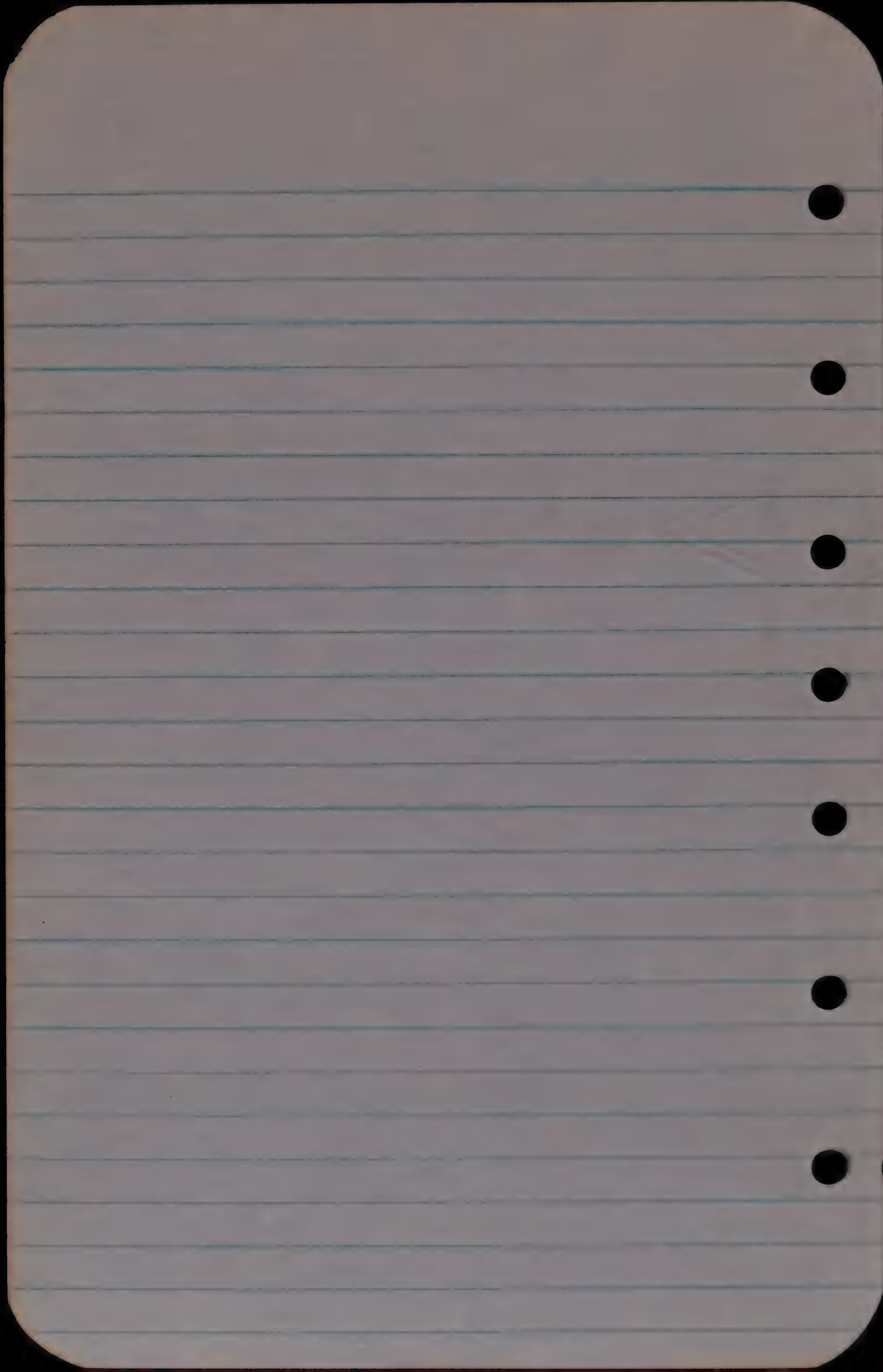


- ed got 0 of larger long
horn on the way out in
heavy slashed country on
~~the way out~~ - also got some
more of the immature
melanoploids on thick
vine tangles

Most of the accessible country
seems to be very much cut
over for wood by the Indians
& hence very difficult to find
any natural wooded bits.
- Got Mantid towards
Culebra beach along trail
near water.

Aug 13 - Went out to Pie de la
Cuesta again - got little of much
interest - got several adult male
Melanobates - no adult ♀♀

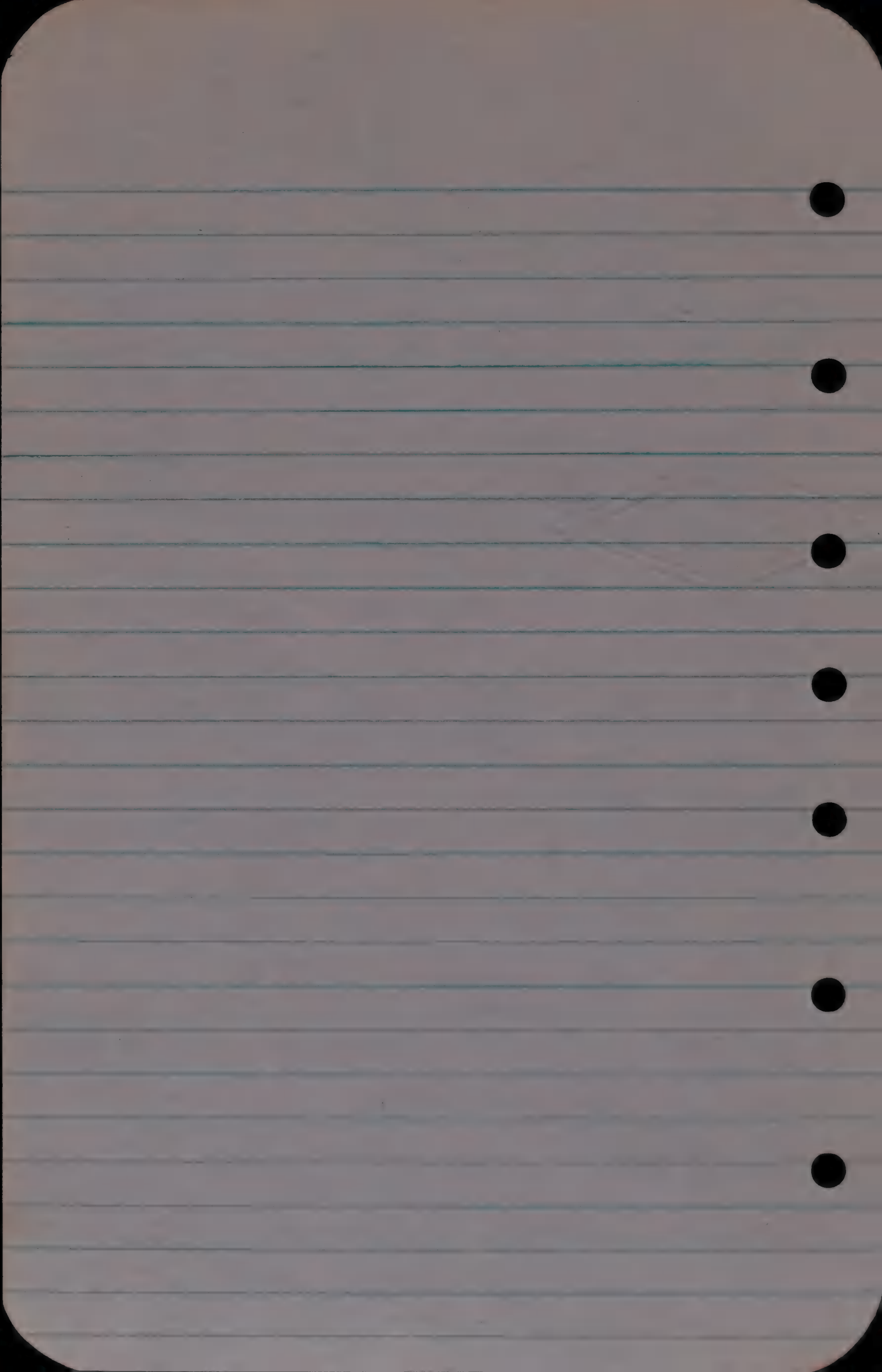
Aug 14 - Went 2.0 mi N of Camp
with Hatch to again look for
the Gomphids. Found really no
well wooded country - got into a
heavy dense tangle by river &
found *Nympha* *Tamias* *Spizella* *Myiophobus*



Melanoploid + 3 immature grey
wingless longhorns - elevation
here probably 1500 ft - sphinxes
everywhere but appear 1/5
be smaller here!

Aug 15 - started back for Mexico
City - stopped near a little town
called "Ortito" about 2500 ft
rather wet sloping meadow full
or no weeds - Got a number
of *Deidamia* ^{*robusta*} ~~*froncosa*~~
one or two *Orphidius*!

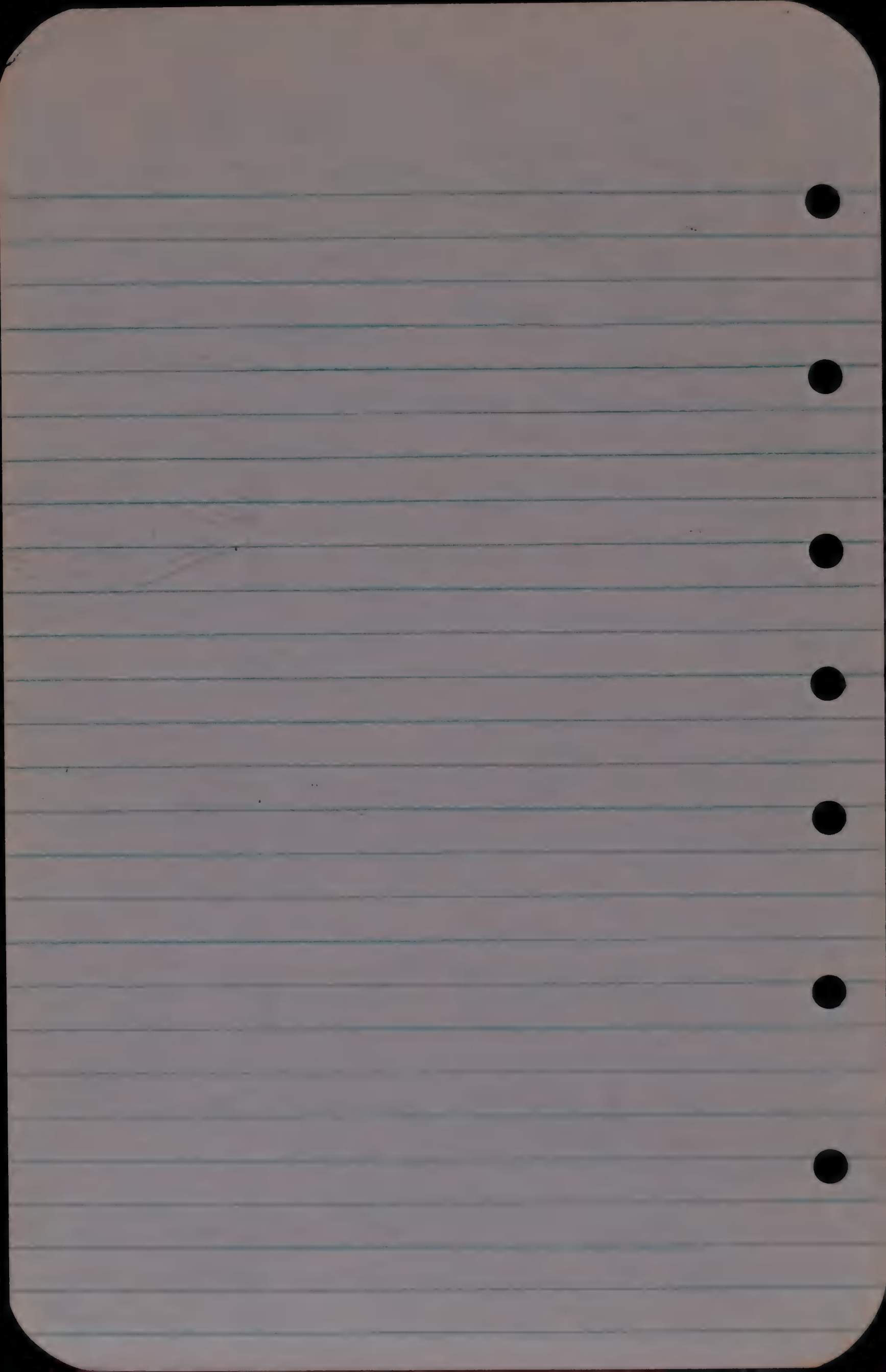
Aug 16 Stopped to collect in a
gorge about 20 mi S. of Chilpancingo
about 3500 ft - got several
adults & couple of immatures
melanoploids in vine tangles -
very difficult to find - only
way was to spot them sitting
out on a leaf and then work
a good many leaves to look
at. Also got several immature
Teinopalpus - went a short distance
further to where road opened up to
a grassy pasture. Bit



found Lepus? in bushes

3-6 ft high in pasture on hillside
very pretty when in hand - they
seem old rather soft - man who
just moults - pale yellowish
green with light soft blue
markings - also got
Shistocerca Amer. - Sawly trap
& several long horns soft
much interest. I also got a
number of Blattids by beating
among some low weeds in
the meadow

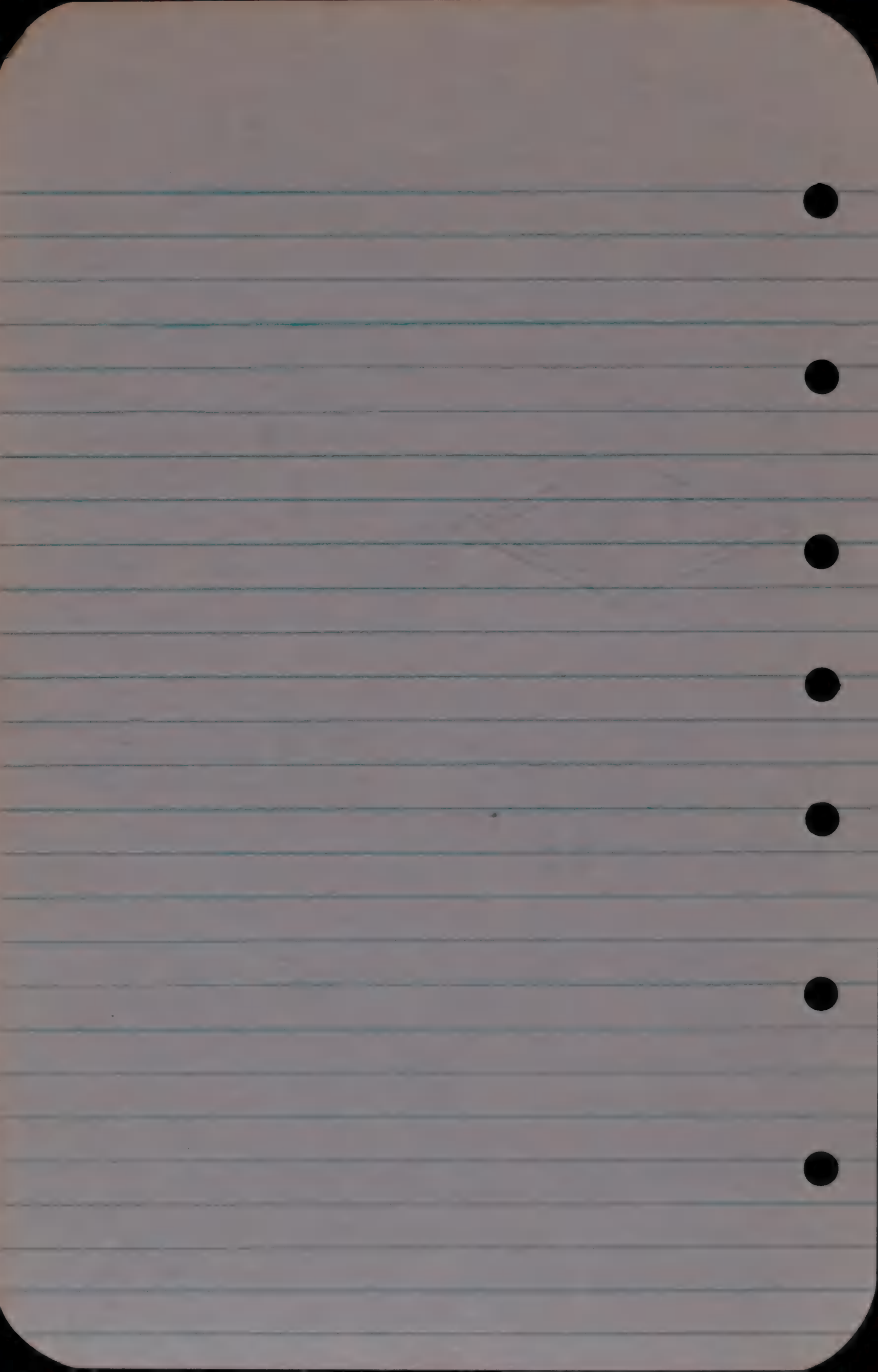
Aug 17 - Collected around
Cañon near the head of the
Cañon de las Zapalotas about
20 mi from Rio Balsas - 2500-3000
ft. Got a number of *Trimastix*
along river on flat sand &
grassy lit. *Aideanona*
fairly common - got one Arphid
on hillside dry brush and
cactus.



August 18th collected in
gorge below Cuernavaca
4500 ft - Nymphs of *Sphenarium*
& *Macracrobia* all on the
weeds & bushes - ^{swampy of latter} got several
little black *Melanoflora* nymphs.
No adults - same size as I did
year. Got the *Sedipodids* along
gravel roadways - got an
Amblytropidia & nymph.
Also *Scyllium*.

Aug 20th - went up to El Desierto
de Los Leones 8500-9000 ft.
collected at lower edge of
forest next to corn field
got the little blue legged
Melanoflora, *Ichthyotetris*, &
orange-red legged *Sedipodid*.
Collected further up in grassy
opening of previous time.
Beside the little blue legged
one got the red legged one,
but much less common.

Could find nothing else in
this region though we stopped
at several localities in the



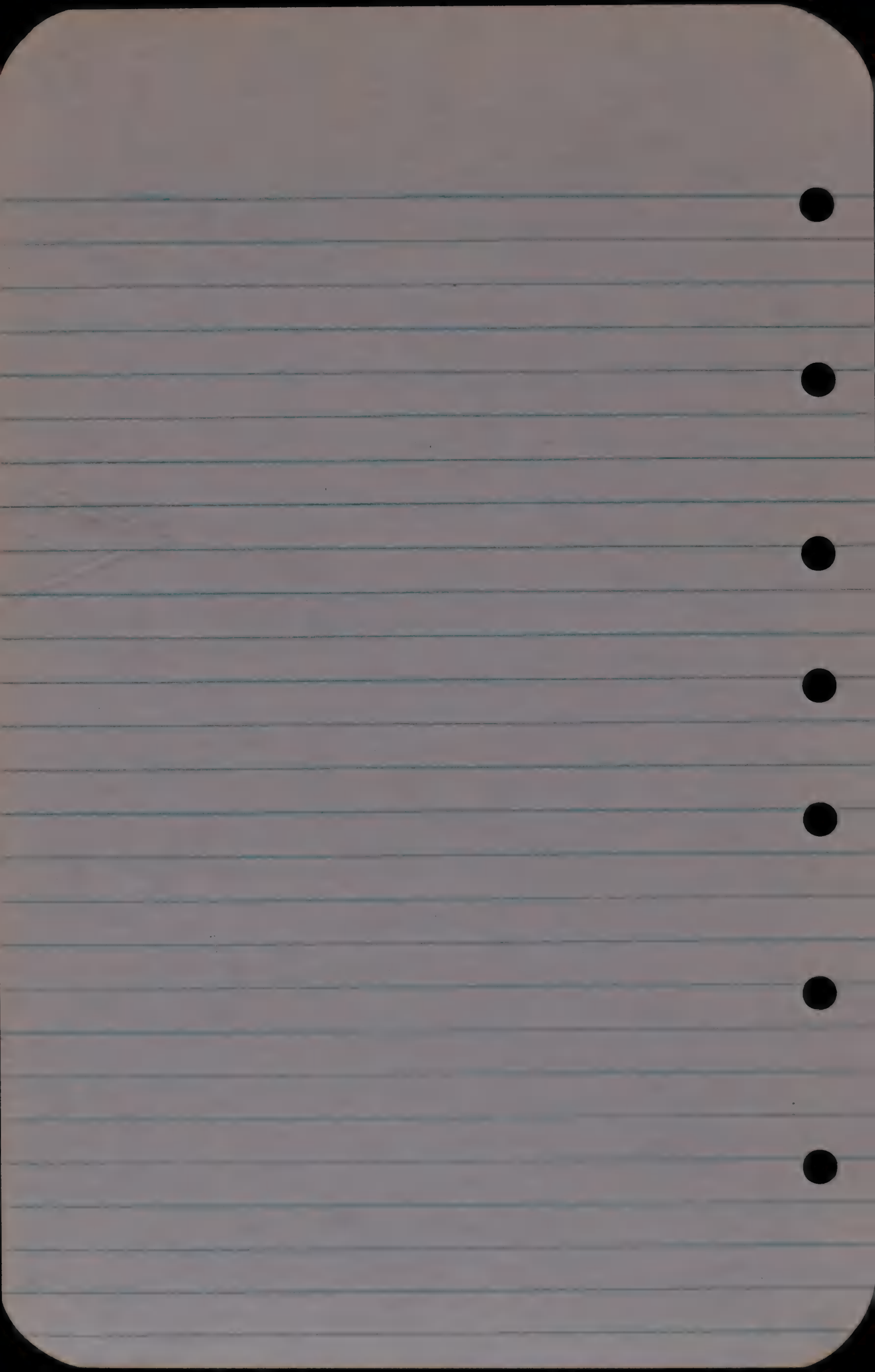
the forest. - then came
in to the road to Toluca
and went to the top of the
pass - Las Cruces - slightly
over 10,000 ft. - went up
hillside - short grass & bushes
with scattered firs & cedars.
Found the little blue legged
Melanoploid which was
mostly in the nymph stages.
Also the red legged flyer.

Went back to Mex. City on
Toluca road - collected at
Km. 18 & found *Perispermus*!

see Aug 21 -

Aug 21 -

Went back to Km. 18 on road
to Toluca 8000 ft - This region
is ~~rather~~ barren rather gentle
slope up to the surrounding
mountains cut by very
deeply eroded gorges. There
are some grassy bits with
low clumps of bushes mostly
made up of many low acacias
with grass. In these clumps



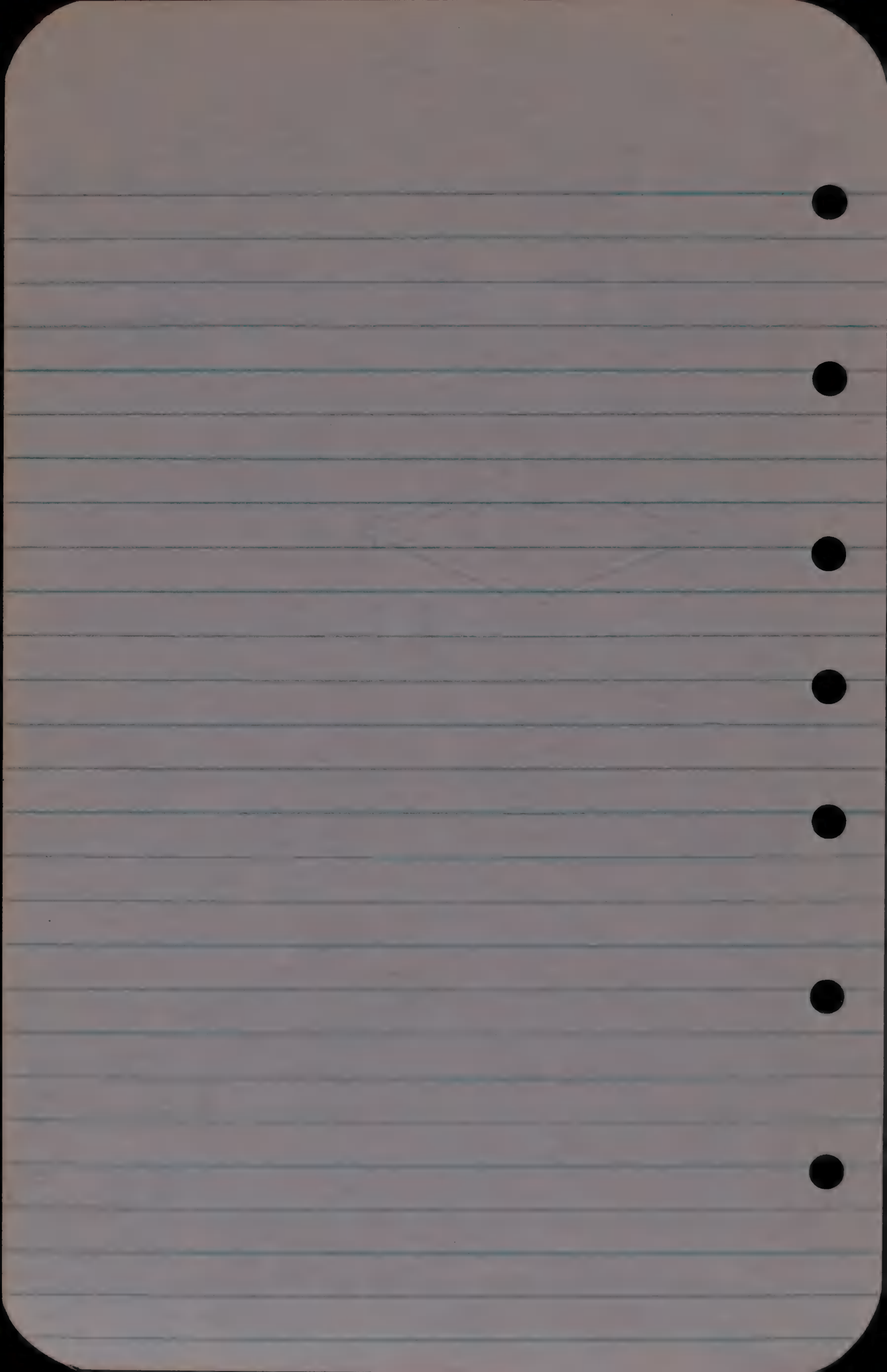
the *Perixerus* were found quite common. However 95% of them were nymphs and only obtained a few adult males.

There were patches of rich short grass and here was found the *Memobius* & grouse locusts also one of *Orpula*.

it made a small continuous buzz when it flew but hard to locate - also got *Trimerotropis pulchellus* on the barren ground. There were a fair number of small nymphs about - went along edge of a gorge where there was larger grass & scrub oaks 6-12 feet high - and found large blue legged *Neotoma* - similar to one taken above Cuernavaca.

also found red legged scorpion here

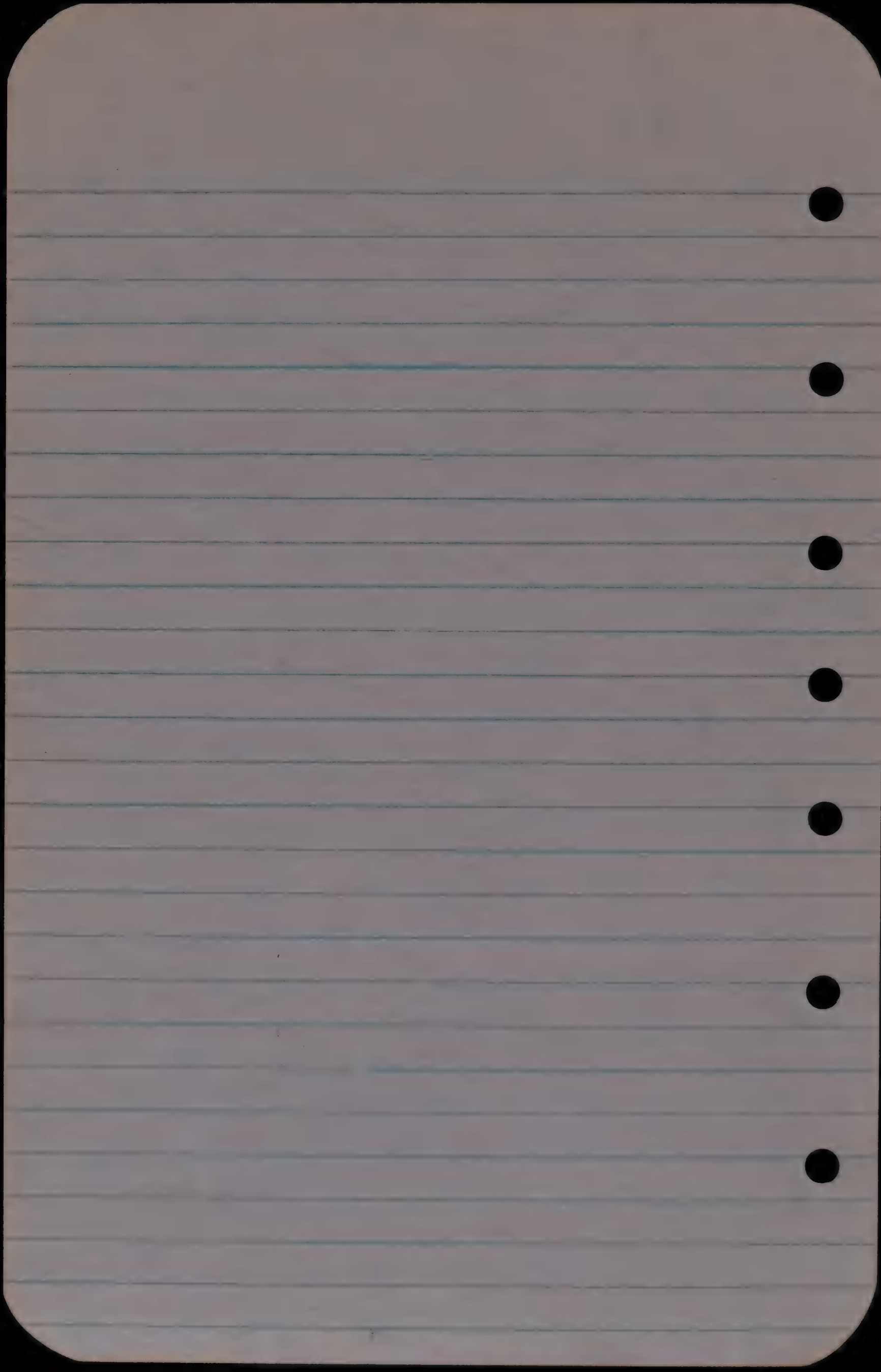
Ed. found a *Settyotellix*.



Aug 22 - Set out for Puebla & Tehuacan
Collected just East of Rio Tico Km 65 about
9000ft - got both *Melanoplus* taken on
western slope but red legged one more
common, also red legged *Acryphaea*?
and one *Phasmid*. Stopped lower
down just beyond forested parts,
practically nothing was found adult.

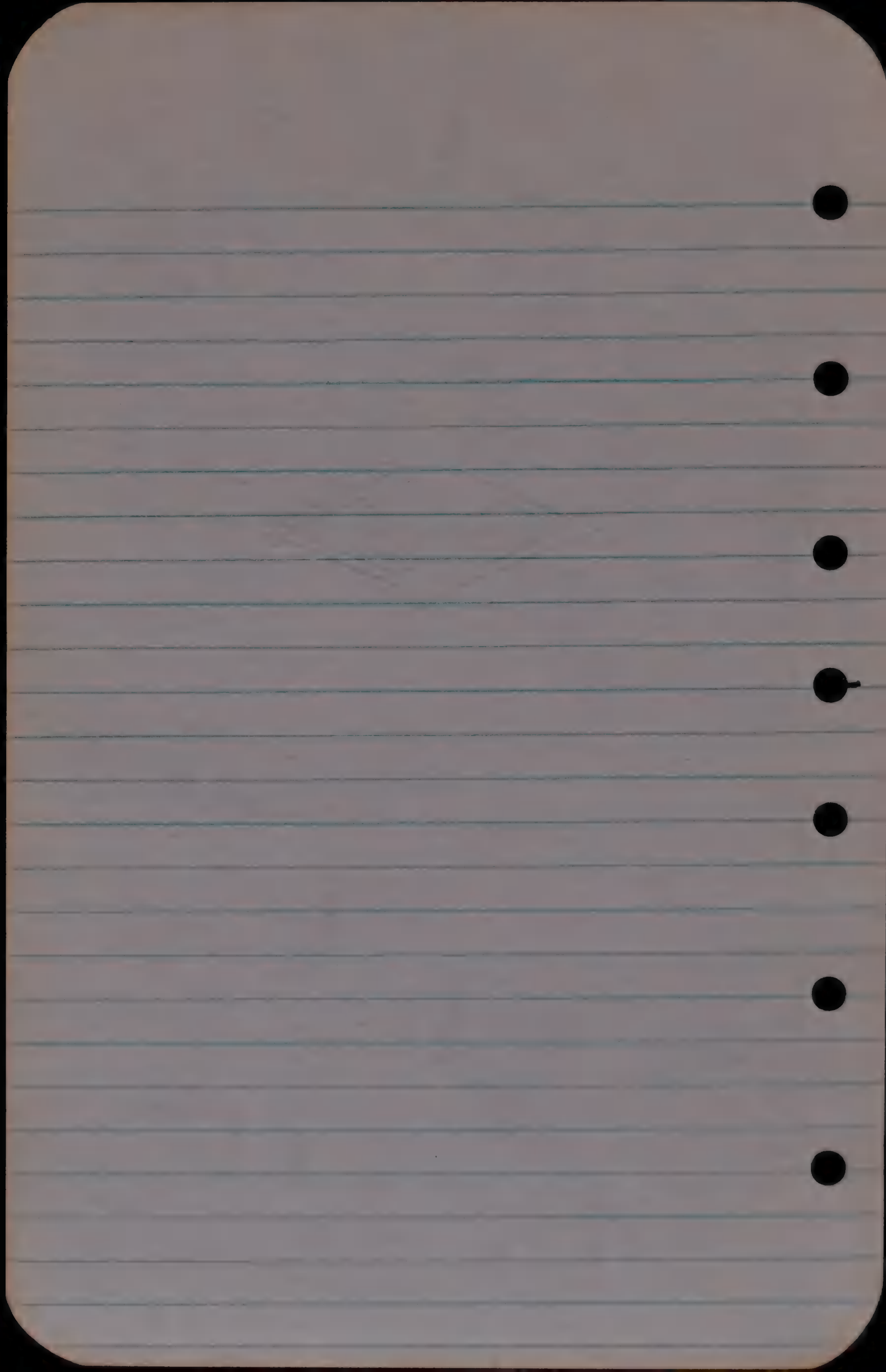
Some ways beyond Puebla
(beyond Texcala) country takes on
a very arid appearance. Much cactus
& acacia and also large tree yuccas.
Made camp Km. 226 about 17 miles
west of Tehuacan on a slight ridge.
Country somewhat similar to that
just beyond Mamoleque Pass except
much colder at night & higher. Tree
yuccas & cactus larger & more abundant.
Elevation 6300ft according to
aneroids.

August 23 - Collected around
camp all day and got a fine haul.
A few of the *Sphenarium* adult.
Very small chumpy things. All adults
were green & males had some pink on
their legs. - Are there two kinds of
Pettigottella like hoppers here, there



appears to be two kinds of rocks?
but had legged *Trinacropis* further
up on ridge & much white limestone.

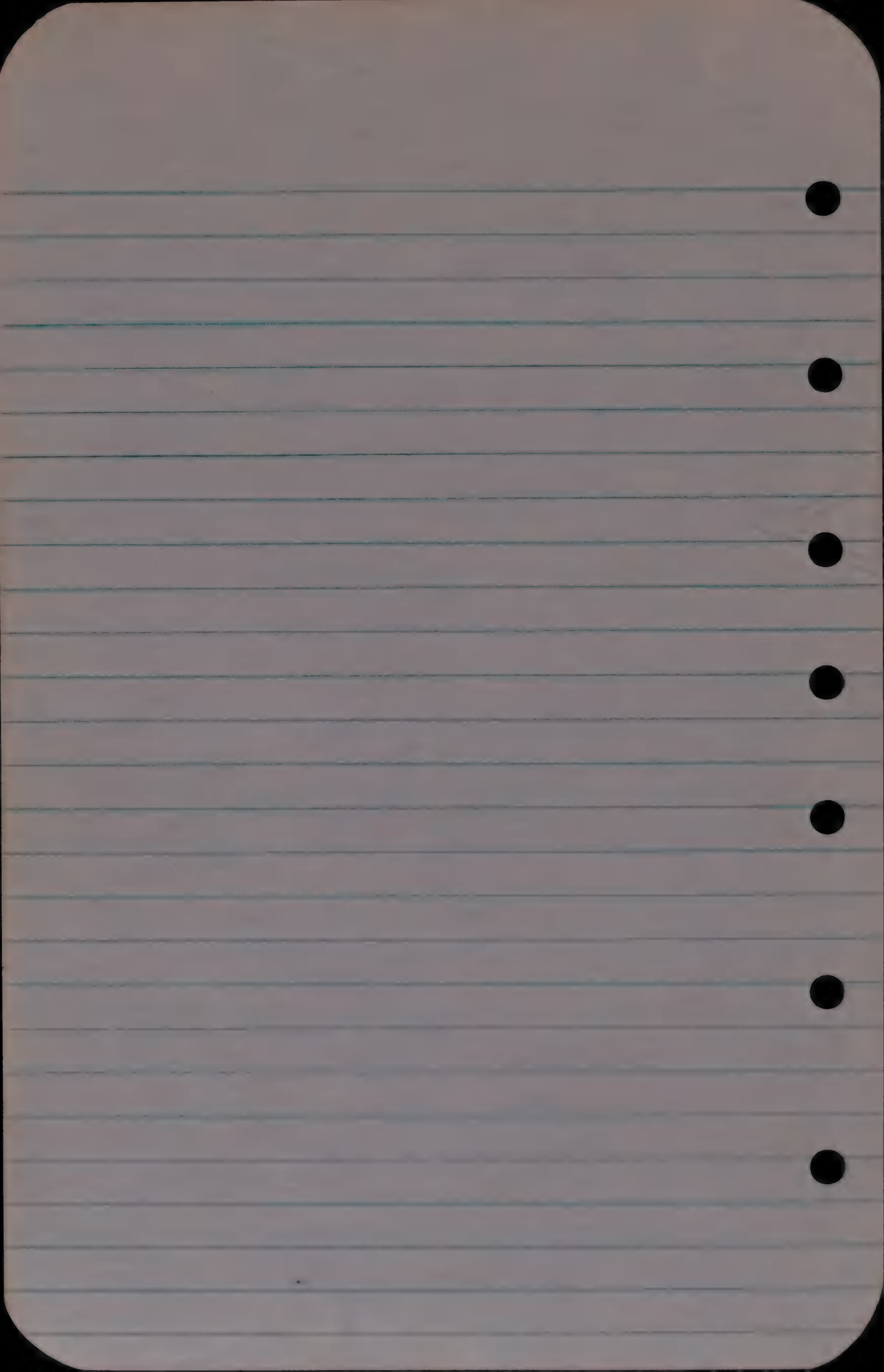
Aug 24. Went to Taluacan (good
road) then back N.E. on road
to Orizaba (gravel road) magnificent
view of ^{Int.} Orizaba - road goes
gradually up for about twenty
miles then over a ridge and
makes a sudden drop into the
valley in which Orizaba lies.
Collected here on our return.
Natives in Occoimingo at the head of
the valley call it *La Cumbre* (the
ridge elevation? - Ratter
low deciduous woods, grassy
bits & weeds. Gets a good
deal of moisture. Probably
mostly clouds. - Collected several
miles West of the center of the town
of Orizaba - weeds & vine
tangles along edge of coffee
planted on hillside. *Phacelostictis*?
abundant - *Chromolaena* common
on the plant they occurred on further
North, *Solanum*?



Found black
nymphs of some ~~Melanoid~~

small longhorns most abundant
several species of Acrididae
Returning stopped at La
Cumbre and ran into Dr Taylor.
Collected short time here &
returned to Camp Km. 22.6.
Dr Taylor joined our Camp
and having dinner.

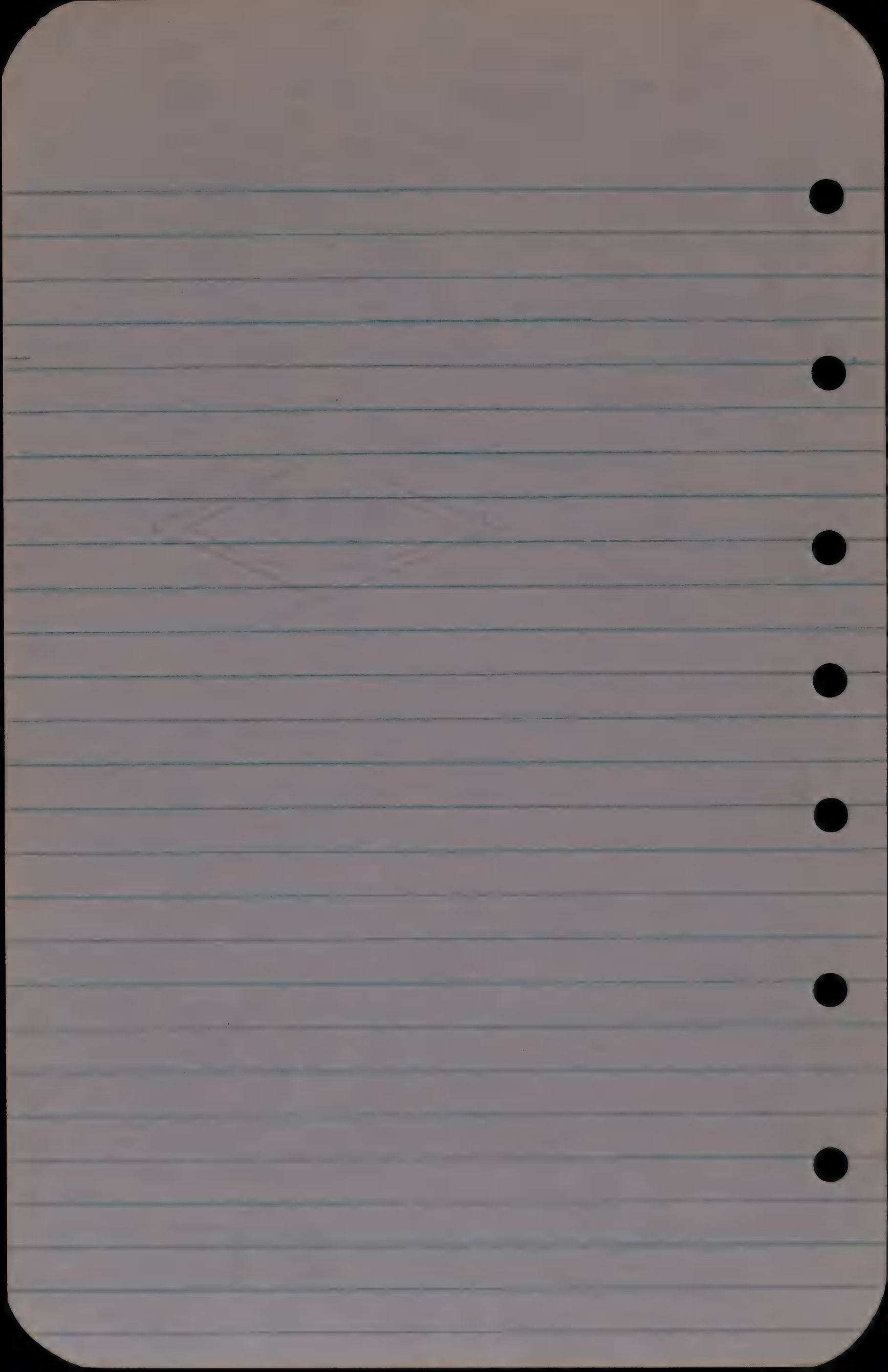
Aug. 25th. Went out
with Dr Taylor, helped him
look for Reptiles etc. (with him)
got several snakes, frogs
& shot some lizards. Dig
up large large clump of
cactus and found number
of large Dichopetalid-like
centrophilus and Blattids
These clump cacti seem to
be very good cover for
such insects, frogs & small
snakes. Found nymph
Cimicid apparently just
caught on spider web
near cactus, almost sure
I saw one the previous day
and will endeavour to
find more on our return here



— in afternoon dug out more of cholla cactus and got similar material incidently a large light coloured rat came out of one of the clumps obtained more Blattids by shaking pieces of dead tree yucca.

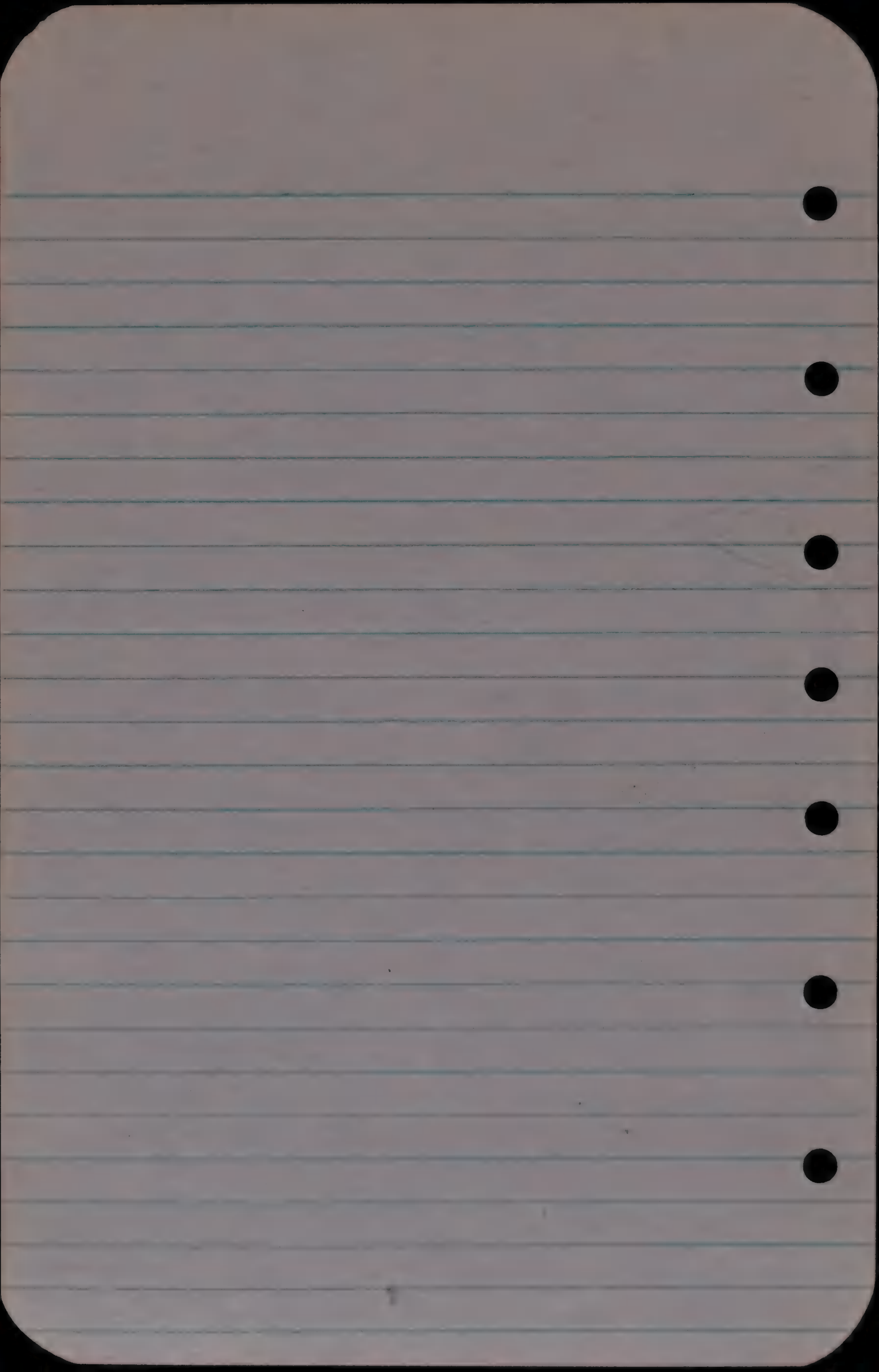
Aug. 26th B. & O. camp, left for Cordoba, leaving trail at Tehuacan collected between La Comadre and Tehuacan, semi-arid but with considerable woods, got many of the species around the 2dnd camp except we found the black Melanoplus nymph here.

Went on to crest of La Comadre and collected here on a grassy and weedy slope surrounded by humid oak forest. Found interesting green Melanoplus also a red winged Oedipodid and long winged Melanoplus.



Went further down slope
stopped for lunch collected
here and got a pair of
adults of the black Melano-
plid nymphs, also a
species of short winged
melanopids. Both of these
were found in thick weeds
along road-side. Arrived
Hotel Zavallos, Cordoba, about
4-30 in heavy rain. Very
tropical in appearance
here but quite cool and
pleasant climate.

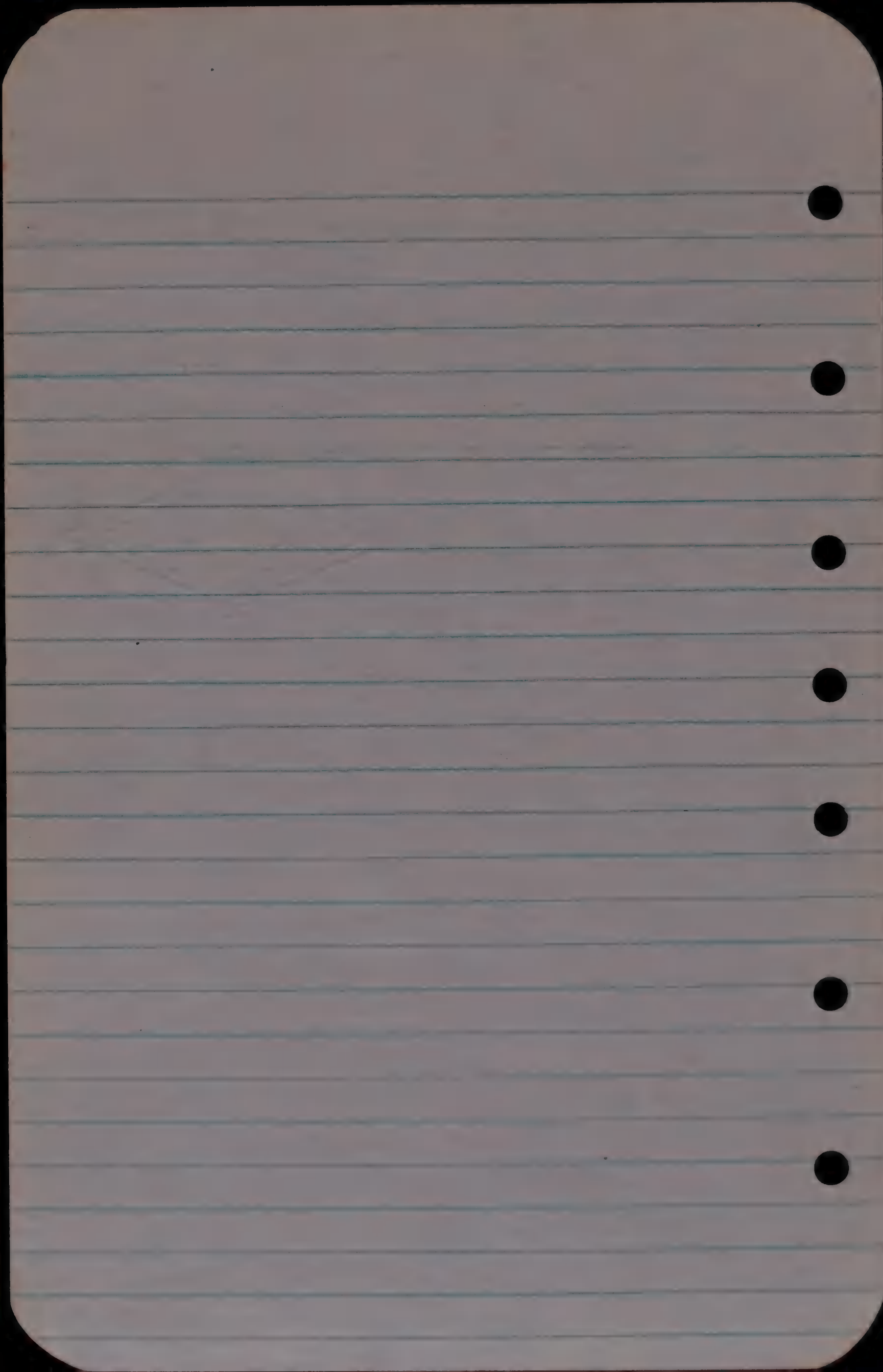
Aug-27th - Went back
along road several miles
towards Cruz Alta to Km. 329,
where road dips to bridge
over two torrents. Collected
here all morning. Very jungle
and forested on the surrounding
steep slopes, in which is
planted when poss. coffee.
Got many sphenurids
about 50% of which were
adult, in weeds along road-
side. Also several species



of Acridids were also. Spent
much time at foot of
slope on which coffee
was planted in semi-shade
and found here a large
number of species living
on the short grass & weeds
or surrounding bushes,
such as, short winged
Acridid, *Rachicreagra*,
Phasmids, *Xyronotus*, many
long horns and grass locusts.
got 1 Blatid out of Bromeliad
which was on the ground.

got broad winged Mantid
in weeds along road way.
stopped between here and
Loreto in higher and
more open country and
obtained in particular
the large slim-winged
Mantid and a large female
Acridid.

Aug. 28th - Returned to
Km. 329 by rivers and got
chiefly a large series
Xyronotus, & *Rachicreagra*



also Phasmodids. Got Cam-
Hophilus like nymph under
rock.

Aug 29 - Took road to Portrero
to the East. Could only go as far
as Portrero Viejo, 2-4 miles
collected about 5 mi E of Cordoba
in large coffee & banana plantation.
Turned over old banana trunks
and found a number of Glaphyrasoma
in little cavities in the ground.
Found a number of the large long
legged crickets, 9 winged Neotrophilus-
like?, and a few Blattels. Got long
horns on bushes along road
& large one Hazel found among
leaves of branch which had
been just cut down - 15 or 20 feet
high. — Collected also along
torrenty grass, weeds & thickets
got little mantid on weeds - Splenarium
seems more colorful here than
ones collected to the west - also
great variation in size - got Schistocerca
here & Tenebrionidae - saw Chromocoris.
Got Oedipodid on road way.
Good collection for Dr Taylor.

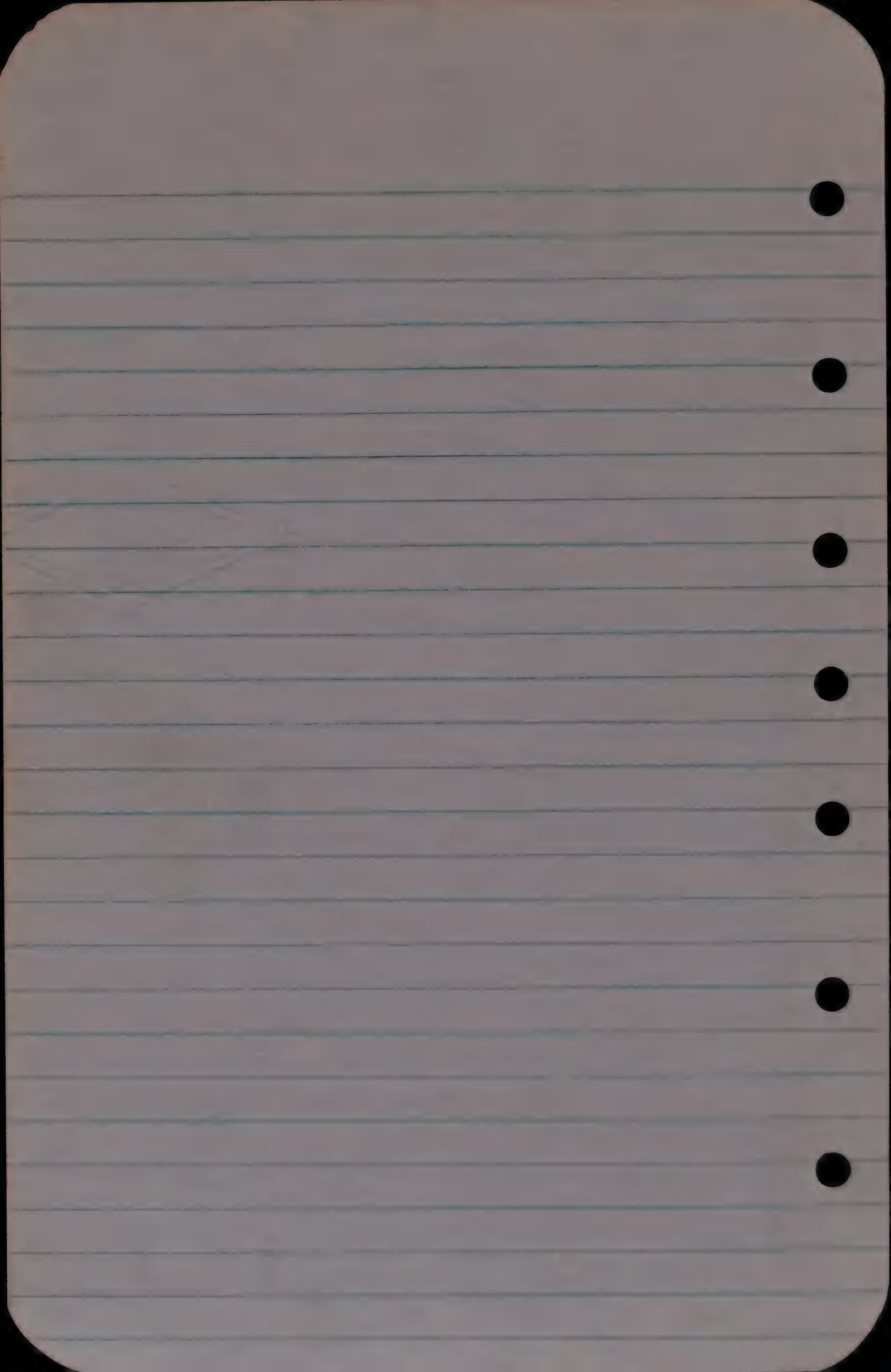
70

28

2

Aug 30 - rain all day - went
down towards Portnoe Creek
and got 4 *Blaptognathus*

Aug 31 went off early with Ray
and towards Portnoe - Hazel
got light greyish. Found *Triumfida*
& *Blaptognathus* near quarry - rocks
light in color. I got a series
(some for Ed) along boulder
stream bed - rocks very dark
& hoppers likewise - Ed &
Phil. went off to find Las
Tortolas & got some more *Triumfida*
that were a reddish brown color.
Collected around large coffee
plantation - Hazel got ♂ & ♀,
& I got ♀ of *Phacellobittacus*
annulicornis! They seemed
to be very scarce on large
weeds in sunny spots in
the coffee groves - many
seen along edge of road.
Also got some *Phacellobittacus* here
& brown (200) long hoppers -
got smokyish brown legged
Gryllus under old boards but



in somewhat similar
cavity as *Clayhross*
of which I got several.

Got one colored *g. Ethenarum*,
the first I have seen.

Sept. Night Stops

9 Night - Ixcaba

10 Villa Juarez

11 Montemorelos

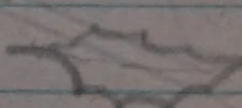
12-13 Higuera

14 16 km. N. Saltillo

15 Pass above Saltillo

16 Mamelecun Pass

Sept. 8, - left Mexico City at 1:30 P.M.
made camp in gorge by Tula River
at Tasquillo.

Sept. 9 - Collected around camp in
the morning for a while. Quite
arid hills - much cactus and
bushes. Not much grass. Found
Hesperotettix like hopper in
bushes with a ^{small} shiny leaf 
got a number of other hoppers of
interest here also - got two
species of large Katydid by
flashlight at night - elevation
about 5500 ft. - went
on to Km 196 just South of
Zimapan. Several species we
did not find before & still
many myriaphs about -
→ about first instar Spinarium
common in weeds about camp.

